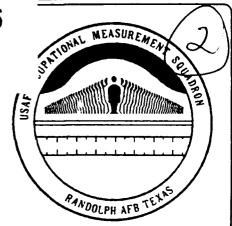


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UNITED STATES
AIR FORCE

# OCCUPATIONAL SURVEY REPORT

S ELECTE OCT 0 6 1992

AIRLIFT AIRCRAFT MAINTENANCE

**AFSC 457X2** 

AFPT 90-457-902

JULY 1992

92-26489 3023

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT SQUADRON
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150-5000

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#### PREFACE

This report presents the results of an Air Force Occupational Survey of the Airlift Aircraft Maintenance (AFSC 457X2) career ladder. Authority for conducting occupational surveys is contained in AFR 35-2. Computer products used in this report are available for use by operations and training officials.

Mr Don Cochran developed the survey instrument, Ms Olga Velez provided computer programming support, and Mr Richard Ramos provided administrative support. Second Lieutenant John Vice analyzed the data and wrote the firal report. Mr Joseph S. Tartell, Chief, Occupational Analysis Flight, USAF Occupational Measurement Squadron, reviewed and approved this report for release.

Copies of this report are distributed to Air Staff sections and other interested training and management personnel. Additional copies may be requested from the Occupational Measurement Squadron, Attention: Chief, Occupational Analysis Flight (OMY), Randolph AFB, Texas 78150-5000.

GARY R. BLUM, Lt Colonel, USAF Commander USAF Occupational Measurement Squadron JOSEPH S. TARTELL Chief, Occupational Analysis Flight USAF Occupational Measurement Squadron

#### SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: This report is based on data collected from 2,873 respondents, constituting 36 percent of all assigned AFSC 457X2 personnel and 57 percent of those receiving survey booklets.
- 2. <u>Career Ladder Structure</u>: Seventeen jobs were identified in the career ladder structure analysis. These jobs can be broadly grouped into aircraft maintenance, maintenance support, and staff positions. Fifty percent of the survey sample perform the Flightline Crew Chief job. Although the personnel in this job are assigned to many different bases and maintain various airlift aircraft, they all perform a core of common aircraft maintenance tasks.
- 3. <u>Career Ladder Progression</u>: The survey data show that Airlift Aircraft Maintenance personnel progress typically through the skill levels to the 7-skill level. Three- and 5-skill level personnel typically have the Flightline Crew Chief job which involves the more technical tasks, while 7-skill level members perform a mixture of technical and supervisory tasks.
- 4. <u>Specialty Descriptions</u>: AFR 39-1 Specialty Descriptions accurately describe jobs and tasks performed by AFSC 457X2 personnel.
- 5. <u>Training Analysis</u>: The majority of the Weapon System Supplement Specialty Training Standards and the Qualification Training Programs are supported by survey data when reviewed using criteria set forth in AFR 8-13/ATC Supplement 1 and ATCR 52-22. Unsupported elements and learning objectives need to be reviewed by functional managers and school personnel.
- 6. <u>Job Satisfaction</u>: Overall, AFSC 457X2 personnel were satisfied with their jobs. Most found their work interesting, felt their talents and training were being used well, and planned to reenlist. Exceptions to this trend were personnel in the -21 Alternate Mission Equipment Support, Composite Tool Kit Monitor, Wheel and Tire, and Supply jobs.
- 7. <u>Discussion</u>: Survey data show that the AFSC 457X2 career ladder structure is comprised of 17 jobs, with 1 job (Flightline Crew Chiefs) comprising 50 percent of survey respondents. Members progress typically through the specialty, and current AFR 39-1 Specialty Descriptions are well supported. In general, survey data support the current training documents, but review by training personnel is suggested.

## OCCUPATIONAL SURVEY REPORT AIRLIFT AIRCRAFT MAINTENANCE CAREER LADDER (AFSC 457X2)

#### INTRODUCTION

This is a report of an occupational survey of the AFSC 457X2 Airlift Aircraft Maintenance career ladder. The objective of this study was to gather current occupational survey report (OSR) data for use in projecting, planning, and developing training for this career ladder. This is the first occupational survey of this career ladder since its conversion in October 1988 under Rivet Workforce.

#### Background

Currently, the AFSC 457X2 career ladder is shredded at the 3- and 5-skill levels only. The shreds are used to denote the type of aircraft maintained. Current shreds are:

45732A C-130, C-23 aircraft

45732B C-5 aircraft

45732C C-9, C-20, C-22, C-140, C-141, T-39, T-43 aircraft

45732E C-17 aircraft

45752A C-130, C-23 aircraft

45752D C-5, C-9, C-20, C-22, C-140, C-141, T-39, T-43 aircraft

45752E C-17 aircraft

All shreds combine at the 7-skill level. For this survey, no information was gathered on the C-17 aircraft (E shred).

The AFR 39-1 Specialty Descriptions state that the 3- and 5-skill level personnel perform inspections, functional checks, and preventive maintenance on aircraft and installed equipment. In addition, they repair, maintain, and service aircraft and installed equipment. They also perform crew chief and maintenance staff functions.

At the 7-skill level, members troubleshoot, repair, service, and modify aircraft, components, systems, and installed equipment. They give advice on problems repairing, maintaining, servicing, and inspecting the installed

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equipment, in addition to inspecting the aircraft, components, systems, and related equipment. AFR 39-1 describes these personnel as performing Expediter, Flight Chief, Line Chief, Crew Chief, and Maintenance staff functions.

ATC technical training for AFSC 457X2 is provided at Sheppard AFB TX. All personnel entering into the maintenance field undergo a general fundamentals course and then complete an AFSC-awarding course that covers the aircraft-specific shred they are to enter. The general course has the designation of J3AQR45020-000 and lasts 25 days. The three shred courses are:

- a. Course 3ABR45732A, Apprentice Airlift Aircraft Maintenance Specialist (C-130). Course length is 17 days. Knowledge and hands-on training-oriented course.
- b. Course 3ABR45732B, Apprentice Airlift Aircraft Maintenance Specialist (C-5). Course length is 12 days. Knowledge-only oriented course.
- c. Course 3ABR45732C, Apprentice Airlift Aircraft Maintenance Specialist (C-141). Course length is 12 days. Knowledge-only oriented course.

These courses teach specific aircraft maintenance and system fundamentals, such as aircraft oxygen, egress, fuel systems, hydraulic and pneudraulic systems, landing gear, flight controls, and aircraft engines and related systems. Training also includes such subjects as maintenance management, aircraft and flightline safety (AFOSH), aircraft ground handling, and identification of corrosion. Upon completion of one of the above shred courses, the student is awarded the 3-skill level and is sent into the field.

When the personnel arrive at their base, MAC (now AMC) begins its own training known as the "qualification training program (QTP)." This training program involves both classroom and hands-on experiences and is basically a formalized on-the-job training (OJT) program. The duration of the training is variable depending on the student and the base, but a common length is 90 days. After completion of QTP training, 3-skill level members must undergo an evaluation period under their supervisor or trainer on the flightline before they are certified as qualified for award of the 5-skill level.

#### SURVEY METHODOLOGY

#### Inventory Development

Data for this survey were collected using USAF Job Inventory AFPT 90-457-902 (August 1990). The Inventory Developer reviewed pertinent career ladder documents and previously developed occupational data in order to prepare a tentative task list. This task list was refined and validated through personal interviews with 70 subject-matter experts (SME) at the following locations:

BASE AIRCRAFT SUPPORTED

Sheppard AFB TX Technical Training Center

Dyess AFB TX C-130H

Altus AFB OK C-5B, C-141B

Little Rock AFB AR C-130E

Scott AFB IL C-9A

Hurlburt Fld FL AC-130H

Dover AFB DE C-5B

McGuire AFB NJ C-141B

Travis AFB CA C-5, C-141

Mather AFB CA T-43

The resulting job inventory contained a comprehensive listing of 998 tasks grouped under 16 duty headings and a background section requesting such information as grade, duty title, major command (MAJCOM) assignment, type of aircraft maintained, and type of maintenance materials, equipment, and tools used.

#### Survey Administration

From February through July 1991, Military Personnel Flights at operational bases worldwide administered the surveys to a stratified random sample of 457X2 personnel holding DAFSCs 45732A, 45732B, 45732C, 45752A, 45752D, and 45772. Personnel were selected from a computer-generated mailing list provided by the Armstrong Laboratory, Human Resources Directorate. Respondents were asked to complete an identification and biographical information section, then go through the booklet and mark all tasks they perform in their current job, and finally go back and rate each task they marked on a 9-point scale reflecting the relative amount of time spent on each task. Time spent ratings range from 1 (indicating a very small amount of time spent) to 9 (indicating a very large amount of time spent).

The computer calculated the relative percent time spent on all tasks for each respondent by first totaling ratings on all tasks, dividing the rating for each task by this total, and multiplying by 100. The percent time spent ratings from all inventories were then combined and used with percent member performing values to describe various groups in the career ladder.

#### Survey Sample

Personnel were selected to participate in this survey to ensure an accurate representation across MAJCOMs and paygrade groups. Due to the large number of assigned AFSC 457X2 personnel, a stratified random sampling process was used to select 5,000 survey participants. Table 1 reflects the percentage distribution, by MAJCOM, of assigned personnel in the career ladder, as well as the MAJCOM distribution of survey respondents in the final sample. The 2,873 respondents in the final sample represent 36 percent of the total assigned AFSC 457X2 personnel and 57 percent of those selected for the survey. Table 2 snows that the paygrade distribution in the sample is close to that of the total AFSC 457X2 population.

#### Data Processing and Analysis

Once the job inventories were received from the field, the booklets were screened for completeness and accuracy and optically scanned to create a complete case record for each respondent. Comprehensive Occupational Data Analysis Programs (CODAP) then created a job description for each respondent, as well as composite job descriptions for members of various demographic groups. These job descriptions were used for much of the analyses reported in this OSR.

#### Task Factor Administration

Personnel who make decisions about career ladder documents and training programs use task factor data (training emphasis (TE) and task difficulty (TD) ratings), as well as job descriptions. The survey process provides these data by asking selected E-6 and E-7 supervisors to complete either a TE or TD booklet. These booklets are processed separately from the job inventories, and TE and TD data, when applicable, are considered when analyzing other issues in the study.

<u>Training Emphasis (TE)</u>. Training emphasis is defined as the amount of structured training that first-enlistment personnel need to perform tasks successfully. Structured training is defined as training provided by resident technical schools, field training detachments, mobile training teams, formal OJT, or any other organized training method. One hundred and twenty-nine experienced AFSC 457X2 noncommissioned officers (NCO) rated tasks in the inventory on a 10-point scale ranging from 0 (no training required) to 9 (high training emphasis required). Interrater agreement for these 129 raters was acceptable.

To better assist training developers, TE ratings were also obtained for each of the major aircraft groups (i.e., C-5, C-9, C-141, and C-130). All but the C-9 aircraft group had acceptable interrater agreement. Consequently, the aircraft-specific TE ratings are used in later sections of this OSR dealing with training.

TABLE 1
MAJCOM REPRESENTATION IN SAMPLE

COMMAND	PERCENT OF _ASSIGNED	PERCENT OF SAMPLE
MAC	84	83
AFSOC	6	7
ATC	3	3
AFSC	2	2
TAC	2	3
USAFE	1	1
OTHER	2	1

TOTAL ASSIGNED - 8,017 TOTAL SURVEYED - 5,000 TOTAL IN SAMPLE - 2,873 PERCENT OF ASSIGNED IN SAMPLE - 36% PERCENT OF SURVEYED IN SAMPLE - 57%

TABLE 2
PAYGRADE DISTRIBUTION OF SAMPLE

PAYGRA	PERCENT OF _ASSIGNED_	PERCENT OF SAMPLE
E-1 to E-3 E-4 E-5 E-6 E-7 E-8	21 30 26 15 8	17 29 28 17 9

- Indicates less than 1 percent

The mean TE rating for the total group was 2.88, with a standard deviation of 1.47. Any task with a rating of 4.35 or better is considered to have high training emphasis. The mean TE rating for C-5 aircraft was 3.03, with a standard deviation of 1.58. When considering training for C-5 personnel, any task with a rating of 4.61 or greater is considered to have high training emphasis. The mean TE rating for C-141 aircraft was 3.33, with a standard deviation of 1.73. Thus, for C-141 training, any tasks with a rating of 5.06 or higher are considered high in training emphasis. Finally, for C-130 aircraft training, the mean TE rating was 3.14, with a standard deviation of 1.45. Thus, any task with a rating of 4.59 or higher is considered high in training emphasis.

Task Difficulty (TD). Task difficulty is defined as an estimate of the length of time the average airman takes to learn how to perform each task listed in the inventory. One hundred and thirty-nine experienced AFSC 457X2 supervisors rated the difficulty of the tasks in the inventory on a 9-point scale ranging from 1 (easy to learn) to 9 (very difficult to learn). Interrater agreement for the 139 raters is also acceptable. TD ratings are normally adjusted so tasks of average difficulty have a value of 5.00 and a standard deviation of 1.00. Any task with a TD rating of 6.00 or greater is considered to be difficult to learn.

### SPECIALTY JOBS (Career Ladder Structure)

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by the respondents. CODAP assists by creating an individual job description for each respondent based on the tasks performed and relative amount of time spent on the tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and combines them to form a composite job description. In successive stages, new members are added to this initial group, or new groups are formed based on the similarity of tasks and time spent ratings. This process continues until all respondents are included in a group.

The basic group used in the hierarchial clustering process is the <u>job</u>. When two or more jobs have a substantial degree of similarity in tasks performed and time spent on tasks they are grouped together and identified as a <u>cluster</u>. The structure of the career ladder is then defined in terms of jobs and clusters of jobs.

#### Overview

Responses from the survey respondents indicate a variety of jobs are performed by AFSC 457X2 personnel. Generally, the 17 jobs can be roughly grouped into broad categories of aircraft maintenance, maintenance support, and staff positions. Based on task similarity and relative time spent, the

division of jobs performed by AFSC 457X2 personnel is illustrated in Figure 1, and a listing of these jobs is provided below. The group number (GRP) or stage number (STG) shown by each title is a reference to computer-printed information; the number of personnel in each group (N) is also shown.

I.	FLIGHTLINE CREW CHIEF	(GRP137,	N=1,437)
II.	SUPER. VISOR	(STG078,	N=285)
III.	AUTOMATED MAINTENANCE CONTROL	(STG276,	N=193)
IV.	MAINTENANCE CONTROL COORDINATOR	(STG299,	N=15)
٧.	-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT	(STG185,	N=102)
VI.	COMPOSITE TOOL KIT (CTK) MONITOR	(STG102,	N=94)
VII.	QUALITY ASSURANCE EVALUATION (QAE)	(STG333,	N=61)
VIII.	TRANSIENT ALERT	(GRP139,	N=51)
IX.	TECHNICAL ORDER MONITOR	(STG077,	N=49)
Χ.	FLIGHTLINE EXPEDITOR	(STG270,	N=40)
XI.	ISOCHRONAL INSPECTOR	(GRP138,	N=38)
XII.	FLIGHTLINE INSPECTOR	(STG340,	N=22)
XIII.	FLIGHT MECHANIC	(STG443,	N=18)
XIV.	TRAINING INSTRUCTOR	(STG471,	N=16)
XV.	WHEEL AND TIRE	(STG525,	N=11)
XVI.	SUPPLY	(STG487,	N=11)
XVII.	REFURBISHMENT MECHANIC	(STG399,	N=10)

The respondents forming these groups account for 85 percent of the survey sample. The remaining 15 percent were performing tasks or series of tasks which did not group with any of the defined jobs. Some of the job titles reported by these personnel include Deficiency Analyst, Nonpowered Support Equipment Specialist or Technician, Supply Expeditor, Computer Operator, NCOIC Debrief, Dorm Manager, and Vehicle Control NCO.

## DISRIBUTION OF AFSC 457X2 PERSONNEL ACROSS CAREER LADDER JOBS

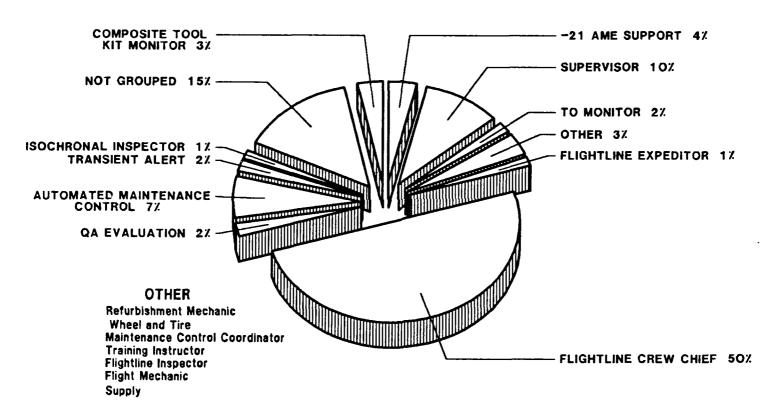


FIGURE 1

#### Group Descriptions

The following paragraphs contain brief descriptions of the jobs identified through the career ladder structure analysis. Table 3 contains the average percent time spent on duties by the career ladder jobs. Selected background data are included in Table 4. Representative tasks for all of these groups are contained in Appendix A.

I. <u>FLIGHTLINE CREW CHIEF (GRP137, N=1,437)</u>. Fifty percent of the total survey sample perform essentially the core job of the specialty. Members are responsible for flightline maintenance on a wide variety of airlift aircraft, including the C-130, the C-141, and the C-5. The largest part of their job time (46 percent) is spent performing general airframe and aircraft maintenance, with smaller amounts of time being spent maintaining landing gear and utility systems, and performing general engine maintenance. Typical tasks performed include:

connect or disconnect external electrical aircraft power ground aircraft launch or recover aircraft operate aircraft interphones marshal aircraft perform single-point aircraft refueling or defueling remove, replace, or reinstall aircraft hardware, such as screws or fasteners position or remove aircraft chocks or pins open or close engine cowlings perform foreign object damage (FOD) walks

A little over half of these airmen (58 percent) hold the 5-skill level, while 29 percent hold the 7-skill level. The members of this group average 84 months TAFMS, 87 percent have a paygrade of E-5 or below, and 64 percent are in their first enlistment. Although several subgroups or job variations were identifiable within this large cluster, the predominant part of the job was essentially the same regardless of the aircraft on which they worked.

II. <u>SUPERVISOR (STG078, N=285)</u>. These personnel represent 10 percent of the survey sample. The majority (84 percent) hold the 7-skill level and spend most of their time supervising, counseling, and evaluating subordinates, and establishing work methods and priorities. Eighty-six percent report supervising other personnel. Very little of their job time is spent actually performing specific maintenance actions on the aircraft. These personnel have an average TAFMS of 178 months, with 73 percent in paygrades E-6 and E-7. Common tasks performed include:

TABLE 3

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS\*

<u>DO</u>	DUTIES	FLIGHTLINE CREW CHIEF (GRP137)	SUPERVISOR (STG078)	AUTOMATED MAINTENANCE CONTROL (STG276)	MAINTENANCE CONTROL COORDINATOR (STG299)	-21 AME SUPPORT (STG185)
•		•	1	1		,
∢	OKGANIZING AND PLANNING	2	17	17	43	9
œ	DIRECTING AND IMPLEMENTING	<b>~</b>	13	∞	16	က
ပ	INSPECTING AND EVALUATING	2	18	ഹ	6	9
۵		<b>-</b>	∞	Ŋ	∞	5
ш	PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY					
	ACTIVITIES	ഹ	22	14	19	14
<b>L</b>	PERFORMING GENERAL AIRFRAME AND AIRCRAFT		•			
	MAINTENANCE	45	11		e	18
	MAINTAINING LANDING GEAR SYSTEMS	11		ı	1	1
	MAINTAINING UTILITY SYSTEMS	7	-	ı	1	2
	MAINTAINING FLIGHT CONTROL SYSTEMS	4	ı	ı	1	1
	MAINTAINING PNEUDRAULIC SYSTEMS	Z.	1	ı	•	ı
	MAINTAINING FUEL SYSTEMS	က	1	•	1	ı
_	MAINTAINING ELECTRICAL SYSTEMS	2	-	ı	1	1
	PERFORMING GENERAL ENGINE MAINTENANCE	9	-	ı	•	ı
z	MAINTAINING NONPOWERED AEROSPACE GROUND					
	EQUIPMENT (AGE)	-	-	ı	1	-
0	MAINTAINING -21 ALTERNATE MISSION EQUIPMENT					
	(AME) AND DUAL RAIL CARGO HANDLING SYSTEMS		7	ı	1	43
a.	PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM					
	(CAMS) ACTIVITIES	-	5	50	<b>-</b>	4

 $^\star$  Columns may not add to 100 percent due to rounding – Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS\*

10	DUTIES	CTK MONITOR ( <u>STG</u> 102)	QUALITY ASSURANCE EVALUATION (STG333)	TRANSIENT ALERT (GRP139)	T.O. MONITOR (STG077)
<b>∢</b> ₿∪□Ш	ORGANIZING AND PLANNING DIRECTING AND IMPLEMENTING INSPECTING AND EVALUATING TRAINING PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY	ထကထက	4 12 3	2 5 1 2 5	17 15 10 8
T Q I H	ACTIVITIES PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE MAINTAINING LANDING GEAR SYSTEMS MAINTAINING UTILITY SYSTEMS MAINTAINING FLIGHT CONTROL SYSTEMS	63	11 20 13 6	10 57 9	46 1
ZZLXC	MAINTAINING PNEUDRAULIC SYSTEMS MAINTAINING FUEL SYSTEMS MAINTAINING ELECTRICAL SYSTEMS PERFORMING GENERAL ENGINE MAINTENANCE MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT	1 1 1 1	0 V 0 4 0	v m 0 0 0 0	
0 4	(AGE) MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	- 1 4	- 1 - 2	m 1 2	ı ı m

\* Columns may not add to 100 percent due to rounding - Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS\*

TRAINING (C INSTRUCTOR (STG471)	12 10 3 3
FLIGHT MECHANIC (STG443)	1 27 11 10 10 10 10 10 10
FLIGHTLINE INSPECTOR (STG340)	76 11 11 11 1
ISOCHRONAL INSPECTOR (GRP138)	4 / c
FLIGHTLINE EXPEDITOR (STG270)	21 18 10 11 1 1
DUTIES	A ORGANIZING AND PLANNING B DIRECTING AND IMPLEMENTING C INSPECTING AND EVALUATING D TRAINING E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE G MAINTAINING LANDING GEAR SYSTEMS H MAINTAINING LIGHT CONTROL SYSTEMS I MAINTAINING PLIGHT CONTROL SYSTEMS MAINTAINING FLIGHT CONTROL SYSTEMS MAINTAINING FLECTRICAL SYSTEMS MAINTAINING GENERAL ENGINE MAINTENANCE N MAINTAINING LECTRICAL SYSTEMS MAINTAINING LECTRICAL SYSTEMS MAINTAINING LECTRICAL SYSTEMS MAINTAINING AND DUAL RAIL CARGO HANDLING SYSTEMS PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES

\* Columns may not add to 100 percent due to rounding - Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS\*

DUTIES	WHEEL AND TIRE (STG525)	SUPPLY (STG487)	REFURBISHMENT MECHANIC (STG399)
A ORGANIZING AND PLANNING	Œ	٣	C
	o ~	s c	7 -
C INSPECTING AND EVALUATING	o ve	7 7	٦ ٥
	o	+ 0	j <del>-</del>
۵.	•	J	-4
ACTIVITIES	28	7.7	σ
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT	)		n
MAINTENANCE	25	ı	73
	) <del>[</del>	•	2 0
	. 1	ı	7 -
MAINTAINING	•	•	<b>⊸•</b> •
J MAINTAINING PNEUDRAULIC SYSTEMS		•	<b>⊶</b> ;
MAINTAINING	ı	•	۱ ۳
MAINTAINING	•	•	<b>⊣</b> c
PERFORMING G	•	•	7 -
_			<b></b> 1
(AGE)	2	1	ı
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME)	1		ŀ
AND DUAL RAIL CARGO HANDLING SYSTEMS	1	ı	•
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS)			<b>⊣</b>
ACTIVITIES	18	10	

\* Columns may not add to 100 percent due to rounding - Indicates less than 1 percent

TABLE 4

SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	FLIGHTLINE CREW CHIEF	SUPERVISOR	AUTOMATED MAINTENANCE CONTROL	MAINTENANCE CONTROL COORDINATOR	-21 AME SUPPORT	CTK MONITOR
NUMBER IN GROUP PERCENT OF SAMPLE	1,437 50%	285 10%	193 7%	15	102 4%	94 3%
DAFSC DISTRIBUTION						
45732A	% (%)	%0	<b>%</b>	%0	1%	%
45/32B 45732C	2	% % 60 60	% %	%0 0	% %	<del>4</del> 1
45752A	19%	% % % %	18%	0% 7%	2 % 2 %	5% 17%
457520	38%	13%	27%	27%	44%	47,8
45772	29%	84%	55%	<b>%99</b>	21%	23%
PAYGRADE DISTRIBUTION						
AIRMAN	24%	%0	4%	<b>%</b> 0	24%	17%
E-4	33%	%9	22%	13%	47%	47%
E-5	31%	20%	47%	33%	22%	21%
Г.	10%	31%	22%	27%	7%	14%
\ <u>'</u>	5%	43%	%	27%	%0	1%
Σ (	<b>%</b> 0	%0	<b>%</b> 0	%	% 0	%0 0
E-9	<b>%</b> 0	<b>%</b> 0	%0	<b>%</b> 0	%0	%0
AVERAGE NUMBER OF TASKS PERFORMED	289	100	35	33	65	38
	84 37%	178	127 13%	152	76	91
	43%	%98 86%	46%	%L?	47%	366 47%

- Less than 1 percent

TABLE 4 (CONTINUED)
SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	QUALITY ASSURANCE EVALUATION	TRANSIENT ALERT	T.O. MONITOR	FLIGHTLINE	I SOCHRONAL INSPECTOR
NUMBER IN GROUP PERCENT OF SAMPLE	61 2%	51 2%	49 2%	40	38 1%
DAFSC DISTRIBUTION					
45732A 45732B	% % 0 0	%0	%%	% 60	% 6 0
45732C	%0	20%	2%	% 0 0	% 0 0
45752A 45752D	2%	6 % 8 % 8 %	16%	% %	7%
45772	91%	24%	32%	100%	%09
PAYGRADE DISTRIBUTION					
AIRMAN	5%	24%	%	<b>%</b> 0	3%
ብ ከ ከ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ	0%0	29% 90%	50%	%%	20%
F	54%	% % %	24% 12%	40%	378 40%
E-7	21%	%°0	4%	58%	%0
E-9	% % 7 0	% % 0	% % 7 0	% % 0	% % 0 0
AVERAGE NUMBER OF TASKS PERFORMED AVERAGE MONTHS TAFMS PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING	179 171 2% 39%	99 87 36% 33%	32 : 102 22% 43%	40 198 0% 75%	179 139 6% 83%

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	FLIGHTLINE INSPECTOR	FLIGHT MECHANIC	TRAINING INSTRUCTOR	WHEEL AND TIRE	SUPPLY	REFURBISHMENT MECHANIC
NUMBER IN GROUP PERCENT OF SAMPLE	22 -	18	16	11.	11 -	10
DAFSC DISTRIBUTION						
45732A	%6	%0	%0	%0	%0	%0
45732B	%0	%0	%0	%6	18%	10%
45732C	32%	%0	%0	%0	%	%0
45752A	5%	%0	%0	55%	%0	30%
575	36%	<b>6%</b>	19%	%0	55%	%09
45772	18%	94%	81%	36%	27%	%0
PAYGRADE DISTRIBUTION					Ē	
AIRMAN	49%	%0	%	%6	18%	20%
E-4	. 18%	%0	%0	37%	55%	20%
E-5	23%	33%	19%	36%	18%	10%
E-6	2%	39%	43%	18%	%6	%0
E-7	2%	28%	38%	%0	%0	%0
E-8	%0	<b>%</b> 0	%0	% O	%0	%0
E-9	%0	%0	%0	%0	%0	<b>%</b> 0
NUMBER	97	191	64	49	31	107
AVERAGE MONTHS TAFMS	68	158	174	111	76	51
PERCENT IN TINUTENTIAL PERCENT	32%	0% 44%	0% 75%	18% 36%	45% 27%	50% 20%
	010	9 r	%)	906	917	90%

- Less than 1 percent

determine work priorities
write EPRs
counsel personnel on personal or military-related matters
participate in meetings, such as staff meetings, briefings,
conferences, or workshops, other than conducting
supervise Airlift Aircraft Maintenance Technicians (AFSC
45772)
establish work schedules
assign personnel to duty positions
inspect personnel for compliance with military standards

There are six distinct variations of supervisors. Members of all six perform a core of common supervisory tasks, but are distinguished slightly by such characteristics as the number of tasks performed, the time spent on common tasks, or an emphasis on unique tasks.

III. <u>AUTOMATED MAINTENANCE CONTROL (STG276, N=193)</u>. Members with this job represent 7 percent of the survey sample and are responsible for coordinating maintenance activities. This includes such duties as acting as a liaison between maintenance and other agencies or recording the progress of maintenance on the flightline. Job incumbents spend the majority of their time (50 percent) working with the Core Automated Maintenance Systems (CAMS) computer system. This group performs such tasks as:

schedule aircraft discrepancies in CAMS
access core automated maintenance system (CAMS) data
screens
update aircraft maintenance discrepancies in CAMS
perform CAMS inquiry for scheduled aircraft discrepancies
reschedule aircraft maintenance discrepancies in CAMS
perform CAMS inquiry for uncompleted maintenance event
listings
perform CAMS inquiry to monitor delayed discrepancies prior
to, during, and after scheduling maintenance

Over 90 percent of these respondents reported being either an E-4, E-5, or E-6, and more than half (55 percent) hold a 7-skill level. Forty-six percent are supervising, and the average TAFMS is 127 months.

IV. <u>MAINTENANCE CONTROL COORDINATOR</u> (STG299, N=15). This group of 15 job incumbents performs a function that is very similar to that of the Automated Maintenance Control personnel. They are distinguished in the amount of time they spend organizing and planning (43 percent) maintenance activities and an almost complete lack (less than 1 percent) of performing CAMS activities. Example tasks performed by this group include:

coordinate maintenance problems with maintenance control or appropriate agencies coordinate aircraft launch and recovery times with aircrews or appropriate agencies determine work priorities coordinate cannibalization of parts with materiel support direct flightline maintenance activities assign maintenance and repair work determine logistics requirements, such as personnel, space, equipment, or supplies coordinate obtaining parts with base supply adjust daily maintenance plans to meet operational commitments

All the members are E-4s or higher, and the majority (67 percent) hold a 7-skill level. Almost half (47 percent) are supervising, and they accomplish an average of only 33 tasks.

V. <u>-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT (STG185, N=102)</u>. Personnel with this job comprise 4 percent of the survey sample and are responsible for maintaining -21 AME and dual rail cargo handling systems on airlift aircraft. They also determine the layout and configuration of cargo compartments in accordance with the needs of the particular mission assigned. Not surprisingly, the largest percent of their job time (43 percent) is spent in Duty O, Maintaining -21 Alternate Mission Equipment (AME), and Dual Rail Cargo Handling Systems. Typical tasks performed include:

perform accountability inspections of -21 AME on aircraft remove, replace, or reinstall -21 AME, other than seats or litters configure cargo compartment seats or litters inspect -21 alternate mission equipment (AME), other than emergency equipment pick up or deliver -21 AME reconfigure aircraft perform -21 AME down loads for aircraft periodic depot maintenance (PDM) perform -21 AME uploads for PDM

There are two distinct AME jobs performed. One is comprised of 18 members who perform only 27 tasks and report working primarily on the C-141 aircraft. The other job is broader, with 76 personnel accomplishing an average of 75 tasks and working on all the primary airlift aircraft.

VI. COMPOSITE TOOL KIT (CTK) MONITOR (STG102, N=94). Members with this job are responsible for the management and maintenance of tools and equipment. Sixty-three percent of their job time is spent performing general

administration and supply activities. These personnel are predominantly in paygrades E-4 or E-5 (78 percent), with 46 percent holding a 45752D AFSC. Average TAFMS is 91 months; 32 percent of the group are in their first enlistment, and they perform an average of 38 tasks. Common tasks include:

maintain CTKs
maintain benchstock parts or equipment levels
maintain tool cribs
inventory equipment, tools, or supplies
issue equipment and supplies
log turn-in of equipment and supplies
inventory CTKs

Survey data show there are three variations within this job. The members of the first are less experienced personnel who perform an average of only 18 tasks. The second variation is comprised of older more experienced personnel who accomplish an average of 59 tasks. The last variation is performed by a small number of members who perform more of a supervisory role in the tool crib area.

VII. QUALITY ASSURANCE EVALUATION (QAE) (STG333, N=61). Members with this job are responsible for inspecting and evaluating flightline maintenance programs and activities. Most report a job title of "Quality Assurance Evaluator or Inspector." These are fairly senior personnel, with most holding the 7-skill level. Seventy-five percent are in paygrades E-6 or E-7, and they have an average TAFMS of 171 months. Performing an average of 179 tasks, commonly performed activities include:

inspect flightline maintenance activities
perform quality verification inspections
review aircraft flight or maintenance records, such as AF
Forms 781 series
inspect aircraft tires
inspect access panels
inspect access doors or hatches
evaluate personnel for compliance with performance
standards or technical orders

VIII. <u>TRANSIENT ALERT (GRP139</u>, N=51). This group of 51 personnel report being assigned primarily to the Transient Alert or Transient Maintenance function. The job incumbents spend the majority of their relative duty time accomplishing tasks related to aircraft ground handling and servicing functions, as well as the associated supply and form and record documentation activities. Performing an average of 99 tasks, representative tasks include:

position AGE to aircraft
position fire extinguishers
perform over-the-wing aircraft refueling or defueling
position or remove aircraft chocks or pins
perform single-point aircraft refueling or defueling
perform FOD walks
tow nonpowered AGE
connect or disconnect external electrical aircraft power

Ninety-two percent of the personnel are E-5s, and almost half (49 percent) hold the 5-skill level.

IX. <u>TECHNICAL ORDER MONITOR (STG077, N=49)</u>. Members with these jobs maintain the technical order library within the maintenance complex. Seventy-three percent are in paygrades E-4 and E-5. They perform an average of only 32 tasks. Examples of the most performed duty tasks include:

maintain technical order publication files
direct maintenance of technical order files
review technical order changes
initiate or annotate technical order system forms, such as
AFTO Forms 22, 27, 110, 110A, 110B, and 131
review technical order system forms, such as AFTO Forms 22,
27, 110, 110A, 110B, and 131
complete AFTO Forms 187 (Technical Order Publications
Request)
maintain time compliance technical orders

Within this cluster, there are two job variations, which differ on only two major factors. One variation accomplishes an average of 11 tasks, with 92 percent of its members not supervising. The other variation performs an average of 45 tasks, and 82 percent of its members are supervising.

X. <u>FLIGHTLINE EXPEDITOR</u> (STG270, N=40). These personnel are considered the flightline coordinators. Their primary function involves directing and coordinating activities of maintenance personnel. Expeditors perform their job by patrolling the flightline and relaying the operational needs of the flightline to the controllers. Most of these personnel are E-6s or  $E^{-7}s$  and hold a 7-skill level. Common tasks performed include:

direct flightline maintenance activities determine work priorities assign maintenance and repair work

coordinate maintenance problems with maintenance control or appropriate agencies clear Red X conditions review aircraft flight or maintenance records, such as AF Forms 781 series initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series plan or schedule work priorities

XI. ISOCHRONAL INSPECTOR (GRP138, N=38). This job has 38 respondents and comprises less than 1 percent of the overall sample. They are responsible for aircraft preventive maintenance. At scheduled intervals, these personnel perform a thorough inspection of an aircraft and make necessary repairs. Almost all (97 percent) are E-4s, E-5s, or E-6s, and none hold the 3-skill level. Averaging 139 months TAFMS, only 6 percent of these members are in their first enlistment, while 83 percent are supervising. Typical tasks include:

remove, replace, or reinstall aircraft hardware, such as screws or fasteners remove, replace, or reinstall access panels connect or disconnect external electrical aircraft power remove, replace, or reinstall wing leading edges inspect aircraft for corrosion lubricate aircraft components complete danger tags, such as AF Forms 979 and 1492

XII. <u>FLIGHTLINE INSPECTOR (STG340, N=22)</u>. This is a unique job performed by a small number of Flightline Crew Chiefs. What distinguishes this job is the amount of time members spend on Duty F, Performing General Airframe and Aircraft Maintenance. Many of the tasks they spend the most time on are inspections of the aircraft. Ninety-one percent reported that they perform pre, thru, and postflight inspections. Members are E-2s thru E-5s, with 64 percent in their first enlistment. The group has an average TAFMS of 68 months. Typical tasks are:

inspect fire extinguishers
inspect access panels
inspect cargo ramp seals
inspect aircraft LOX systems
inspect access doors or hatches
inspect crew entrance ladders
inspect pressure door seals, such as crew entrance door or
 visor seals
inspect liferaft release mechanisms, other than liferaft
 doors

XIII. <u>FLIGHT MECHANIC</u> (STG443, N=18). These 18 members perform a specialized maintenance function that involves more in-depth and time-consuming repair activities than those found in other flightline jobs. A majority of these personnel maintain the C-20 aircraft, and over half work at Andrews AFB. Common tasks include:

initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series perform operational checks of aircraft batteries perform single-point aircraft refueling or defueling inspect hydraulic system plumbing inspect aircraft shock struts perform operational checks of pitch trim systems inspect brake system components perform operational checks of spoiler systems

All of these personnel are in paygrades E-5 and above. Ninety-four percent hold a 7-skill level. Average TAFMS is 158 months.

XIV. TRAINING INSTRUCTOR (STG471, N=16). These 16 incumbents reported spending over half (53 percent) of their relative duty time on Duty D, Training. This small group is comprised of a variety of instructors and trainers from 11 different bases including Sheppard, Travis, and Dyess AFBs. None of these personnel are in their first enlistment, 82 percent are in paygrade E-6 or E-7, and 81 percent hold a 7-skill level. Typical tasks performed are:

direct or implement training programs counsel trainees on training progress maintain training records, charts, graphs, or files annotate training records determine training requirements develop formal course curricula, plans of instruction (POI), or specialty training standards (STS) administer tests evaluate progress of trainees

XV. WHEEL AND TIRE (STG525, N=11). The 11 members of this group perform a unique and specialized job involving aircraft wheel and tire assemblies. Seventy-two percent are in paygrades E-4 and E-5. Typical tasks performed include:

build up wheel and tire assemblies inspect wheel assemblies inspect wheel bearings break down wheel and tire assemblies inspect aircraft tires

pack wheel bearings service aircraft tires clean aircraft wheels inspect aircraft wheel and tire bead breakers

XVI. <u>SUPPLY (STG487, N=11)</u>. The 11 personnel in this job spend 75 percent of their time performing general administration and supply activities involving forms and records maintenance tasks. Typical tasks representative of this group include:

complete AFTO Forms 350 (Reparable Item Processing Tag) annotate or complete AF Forms 2413 (Supply Control Log) complete AF Forms 2005 (Issue/Turn-in Request) review AF Forms 2413 (Supply Control Log) research technical orders to identify components or items of equipment coordinate obtaining parts with base supply research microfiche files for supply requisition data prepare documentation to turn in excess or surplus property

Nine of the incumbents are E-4s to E-6s and hold a 5- or 7-skill level. The members of this group have an average of 76 months TAFMS, and five are in their first enlistment.

XVII. <u>REFURBISHMENT MECHANIC</u> (STG399, N=10). These 10 people perform a job which is similiar in purpose to that of the preventive maintenance performed by the Isochronal Inspectors. Refurbishment occurs much less often and is accomplished in greater detail. Most of these personnel hold a 5-skill level, and half are in their first enlistment. Common tasks performed include:

refurbish aircraft interior or exterior surfaces remove, replace, or reinstall aircraft hardware, such as screws or fasteners lubricate aircraft components clean interior of aircraft, such as crew compartments or cargo compartments remove, replace, or reinstall access panels inspect aircraft for corrosion inspect seats, seatbelts, inertial reels, or shoulder harnesses

#### Summary

As noted earlier, 17 jobs were identified in the career ladder structure analysis. These jobs can be broadly grouped into aircraft maintenance, maintenance support, and staff positions. Fifty percent of the survey sample perform the Flightline Crew Chief job. Although the personnel in this job are assigned to many different bases and maintain various airlift aircraft, they all perform a core of common aircraft maintenance tasks.

#### CAREER LADDER PROGRESSION

Analysis of DAFSC groups, together with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed by members of the various skill-level groups, which in turn may be used to determine how well career ladder documents, such as AFR 39-1 Specialty Descriptions and the STS, reflect what members of the various skill-level groups are doing.

The distribution of skill-level members across the 17 job groups is shown in Table 5, while the relative amounts of time the members of the various skill-level groups spend on duties are shown in Table 6. These data show more 3- and 5-skill level members are involved with the technical aspects of the career ladder, and 7-skill level personnel perform a mixture of technical and supervisor tasks.

#### SKILL-LEVEL DESCRIPTIONS

<u>DAFSC 45732/45752</u>. DAFSC 45732/45752 respondents comprise 59 percent of the survey sample. As shown in Table 5, most 3- and 5-skill level members have the Flightline Crew Chief job, with smaller percentages working in such areas as -21 AME Support, Transient Alert, or CTK Monitor. There were 246 3- and 5-skill level members that were not grouped into any cluster or independent job because of the diversity of tasks they perform. Representative tasks DAFSC 45732/52 members perform are listed in Table 7. Most of the tasks listed are core to the Flightline Crew Chief.

<u>DAFSC 45772</u>. Seven-skill level personnel constitute 41 percent of the sample and, as shown in Table 5, are involved in most of the jobs identified by survey data. Representative tasks performed by 7-skill level members are listed in Table 8 and include a mixture of technical and supervisory tasks. Table 9 lists examples of tasks that best differentiate between AFSC 45732/52 and 45772 personnel. Figures in the top portion of the table show a greater percentage of 3- and 5-skill level personnel perform the technical tasks, while figures in the lower half clearly show more 7-skill level personnel perform the supervisory and administrative tasks.

TABLE 5

DISTRIBUTION OF SKILL-LEVEL MEMBERS
ACROSS CAREER LADDER JOBS
(PERCENT)

45732A JOB (N=55)	45732A (N=55)	4	45732C (N=147)	45752A (N=420)	45752D (N=977)	45772 (N=1,183)
FLIGHTLINE CREW CHIEF	82%		29%	64%	26%	35%
SUPERVISOR	0		0	2%	4%	20%
AUTOMATED MAINTENANCE CONTROL	0		0	%6	2%	%6
MAINTENANCE CONTROL COORDINATOR	0		0	*	*	1%
-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT	4	7%	<b>%</b> 9	ν %	ν %	%
COMPOSITE TOOL KIT (CTK) MONITOR	7%		3%	3%	4%	5%
QUALITY ASSURANCE EVALUATION (QAE)	0		0	*	*	2%
TRANSIENT ALERT	C		7%	1%	3%	1%
TECHNICAL ORDER MONITOR	0		1%	2%	2%	1%
. FLIGHTLINE EXPEDITOR	0	0	0	0	0	3%
ISOCHRONAL INSPECTOR	0	0	0	1%	1%	2%
FLIGHTLINE INSPECTOR	4%	0	2%	*	1%	*
FLIGHT MECHANIC	0	0	0	0	*	1%
TRAINING INSTRUCTOR	0	0	0	0	*	1%
WHEEL AND TIRE	0	7%	0	2%	0	*
SUPPLY	0	2%	0	0	1%	*
REFURBISHMENT MECHANIC	0	1%	0	1%	1%	0
NOT GROUPED	3%	%6	19%	10%	17%	17%

\* Denotes less than 1 percent

TABLE 6

TIME SPENT ON DUTIES BY MEMBERS OF SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)

DUTIES	45732A (N=55)	45732B (N=91)	45732C (N=147)	45752A (N=420)	45752D (N=977)	45772 (N=1,183)
A ORGANIZING AND PLANNING	-	2	2	4	S	12
B DIRECTING AND IMPLEMENTING	0	-	0	2	m	, α
C INSPECTING AND EVALUATING	-	2	2	2	4	10
D TRAINING		-	0	2	m	ع
E PERFORMING GENERAL ADMINISTRATIVE AND				1	,	•
SUPPLY ACTIVITIES	11	12	œ	12	13	14
F PERFORMING GENERAL AIRFRAME AND						
AIRCRAFT MAINTENANCE	52	46	53	37	35	23
G MAINTAINING LANDING GEAR SYSTEMS	7	10	<sub>∞</sub>	9	∞	ഹ
H MAINTAINING UTILITY SYSTEMS	9	9	ო	ഹ	4	m
I MAINTAINING FLIGHT CONTROL SYSTEMS	2	ĸ	ო	m	m	5
J MAINTAINING PNEUDRAULIC SYSTEMS	က	m	က	4	m	m
K MAINTAINING FUEL SYSTEMS	2	2	2	2	2	
L MAINTAINING ELECTRICAL SYSTEMS	2	2	4	4	4	5
M PERFORMING GENERAL ENGINE MAINTENANCE	4	4	4	4	4	m
N MAINTAINING NONPOWERED AEROSPACE GROUND						
EQUIPMENT (AGE)	0	-	-	-	1	0
O MAINTAINING -21 ALTERNATE MISSION FOLITOMENT (AMF) AND DIAL RATE CARGO					ı	
HANDLING SYSTEMS	က	2	9	m	m	
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	2	0		· თ	ഹ	7

TABLE 7

REPRESENTATIVE TASKS PERFORMED BY 45732/52 PERSONNEL

TASKS		MEMBERS PERFORMING (N=1,690)
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	73
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	72
F317	GROUND AIRCRAFT OPERATE AIRCRAFT INTERPHONES POSITION FIRE EXTINGUISHERS OPEN OR CLOSE ENGINE COWLINGS INSPECT FIRE EXTINGUISHERS	69
F367	OPERATE AIRCRAFT INTERPHONES	68
F416	POSITION FIRE EXTINGUISHERS	66
F363	OPEN OR CLOSE ENGINE COWLINGS	66
F334	INSPECT FIRE EXTINGUISHERS	65
G523	INSPECT AIRCRAFT TIRES	65
	SERVICE AIRCRAFT TIRES	65
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS	
	SCREWS OR FASTENERS	64
	LUBRICATE AIRCRAFT COMPONENTS	64
F319	INSPECT ACCESS PANELS	64
	WALK WINGS OR TAILS DURING AIRCRAFT FOWING OPERATIONS	64
	MARSHAL AIRCRAFT	64
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	64
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	63
F411	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING SERVICE AIRCRAFT SHOCK STRUTS	63
	INSPECT ACCESS DOORS OR HATCHES	63
	POSITION AGE TO AIRCRAFT	63
	LAUNCH OR RECOVER AIRCRAFT	62
	TOW AIRCRAFT	62
F487	SERVICE AIRCRAFT LOX SYSTEMS	62
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER	
	HARNESSES	61
	INSPECT AIRCRAFT FOR CORROSION	60
F494	SERVICE ENGINES WITH OIL	60
F344	INSPECT SEAT LOCKING MECHANISMS	60

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY 45772 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,183)
C106	WRITE EPRs	70
A10		67
C65	CLEAR RED X CONDITIONS	60
A7		
	OR APPROPRIATE AGENCIES	56
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	55
A1		54
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF	
	FORMS 781 SERIES	54
	CONDUCT OJT	54
	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	54
D112	ANNOTATE TRAINING RECORDS	53
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	53
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS,	
	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING PLAN OR SCHEDULE WORK PRIORITIES PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS ASSIGN PERSONNEL TO DUTY POSITIONS INSPECT AIRCRAFT TIRES PLAN OR SCHEDULE WORK ASSIGNMENTS EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	E 2
122	CUNDUCTING  DIAN OR COURDING MORE RETORITIES	52 50
A22	PEDCODM CODETON OD JEGT DAMAGE (EGD) WALKS	50
F3/U	ACCION DEDCONNEL TO DUTY DOCITIONS	40
MZ CE22	ASSIGN PERSONNEL TO DOTT POSTITONS	43 40
421	DIAN OD COUEDILE MODE ACCIONMENTS	49
US1	ENAITHATE DEDONNIEL END COMDITANCE WITH DEDENDMANCE	70
COI	STANDARDS OR TECHNICAL ORDERS	48
E210	INCDECT ACCECC DANEIC	71 🗙
P982	ACCESS CAMS MENUS WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS GROUND AIRCRAFT	47
C108	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	47
F317	GROUND AIRCRAFT	46
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	46
F416		46
F500		46
F318		46
	INSPECT FIRE EXTINGUISHERS	45
A17		45
E212		45

TABLE 9

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 45732/52 AND DAFSC 45772 PERSONNEL (PERCENT MEMBERS PERFORMING)

LUBRICATE AIRCRAFT COMPONENTS CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	ER (N=1,690) ER 73 OR 64 AS 64	(N=1,183) 35 46 38 29 38	<u>DIFFERENCE</u> 27 27 26 26 26
SERVICE AIRCRAFT TIRES PLAN OR SCHEDULE WORK ASSIGNMENTS COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS CLEAR RED X CONDITIONS WRITE FED		40 70 60 60 54 55	25 25 25 -45 -41 -37 -36 -36

## Summary

Survey data show Airlift Aircraft personnel progress typically through the skill levels to the 7-skill level. Three- and 5-skill level personnel typically have the Flightline Crew Chief job which involves the more technical tasks, while 7-skill level members perform a mixture of technical and supervisory tasks.

## AFR 39-1 SPECIALTY JOB DESCRIPTION ANALYSIS

The current AFR 39-1 Specialty Descriptions for the career ladder were compared to job descriptions for each job identified and for each DAFSC group. Survey data support the jobs and tasks included in the current AFR 39-1 Specialty Descriptions.

### TRAINING ANALYSIS

Occupational survey data are a source of information used to review training documents for the specialty. The three most commonly used types of data are: (1) percent of first-enlistment personnel performing tasks, (2) ratings of how much training emphasis tasks should receive in the basic resident course, and (3) ratings of relative task difficulty.

TE and TD data are secondary factors that are used in conjunction with percent members performing figures to determine what tasks should be included in entry-level training. Tasks with high TE and TD ratings and performed by moderate to high percentages of first-enlistment personnel are normally taught in resident courses, while tasks with high TE and TD ratings and low percentages of first-enlistment personnel performing may be more appropriate for OJT. Tasks with low TE and TD ratings are generally not included in any formal training, unless their inclusion can be justified by percent members performing, command concerns, or criticality.

There is an additional factor, the Automated Training Indicator (ATI) computed for each task in the inventory, that school personnel can use to assist in making training decisions. A computer program uses the percent of first-enlistment members performing each task, TE and TD ratings, and the Course Training Decision Table found in ATCR 52-22, Atch 1, to assign an ATI value to each task in the inventory. ATIs range from 1 to 18 and suggest what tasks are most appropriate for training and to what level. The decision table and explanation of the ATIs precede the listing of tasks in descending ATI order in the Training Extract. School personnel will find this table and listing valuable for making decisions about training documents.

Tables 10, 11, and 12, representing the C-5, C-141, and C-130 aircraft, provide a listing of the tasks with the highest TE ratings, with accompanying first-job (1-24 months TAFMS), first-enlistment (1-48 TAFMS), and TD ratings shown. These are primarily resources support tasks performed by high percentages of first-enlistment personnel. A significant number of the same tasks appeared repeatedly among the three listings. Tasks with the highest TD ratings are listed in Table 13. These are management, training, general engine maintenance, and flight control systems maintenance tasks. A very low percentage of first-term personnel perform these tasks. The 5- and 7-skill level respondents perform these tasks slightly more than the first-term personnel.

Four training extracts were developed for this study: one for the total career ladder and three others are for each of the major weapon systems--the C-5, the C-141, and the C-130. The training extract for the total sample contains a listing of tasks sorted in descending order of TE, TD, and ATI, a complete listing of all tasks in the inventory, a listing of the tasks performed by first-enlistment personnel, and a listing of the equipment used. training extracts for each weapons system contain the same type of information, but with survey data specific to the particular aircraft (i.e., only personnel who reported working on the aircraft were included in that particular training extract). In addition, each extract contains listings of the Weapon System Supplement STS (WS Sup STS) and QTP, along with tasks matched to elements and learning objectives, and percent first-job, first-enlistment, and 5- and 7-skill level members performing each matched task. Copies of all extracts have been forwarded to technical school personnel for their use in reviewing training documents. A summary of OSR information is presented below.

## First-Enlistment Personnel

Eight hundred and twelve respondents indicated they are in their first enlistment. As shown by Figure 2, 65 percent of first-term personnel are working as Flightline Crew Chiefs, 6 percent are working in the -21 AME Support job, and 4 percent in the CTK Monitor job. Smaller percentages of first-term respondents work in such jobs as Automated Maintenance Control, Transient Alert, Flightline Inspector, and Technical Order Monitor. As indicated in Table 14, the total sample first-enlistment personnel spend 44 percent of their duty time performing general airframe and aircraft maintenance and 11 percent of their time performing general administrative and supply activities. Representative tasks performed are listed in Table 15. nance equipment and materials and tools used by first-enlistment personnel are listed in Table 16. The aircraft towbar, the floodlight set (NF-2), and the liquid oxygen cart are the most commonly used maintenance equipment in the total sample of first-enlistment personnel. Expectedly, handtools, lubricants, and torque wrenches are the most commonly used maintenance materials and tools. C-5, C-141, and C-130 specific percentages for each area are also shown on Tables 14, 15, and 16.

TABLE 10

SAMPLE OF TASKS WITH HIGHEST C-5 TRAINING EMPHASIS RATINGS

			PERCENT MEMB PERFORMING	MEMBERS MING	
TASKS		TNG	15T J0B	1ST ENL	TSK DIF
F361	MARSHAL ATRCRAFT		00	o	L
F411	SINGLE-POINT	7 11	ς α η α	0 c	رن . د . وه
F487	E AIRCRAFT LOX SYSTEMS		94	87	
F358	R RECOVER AIRCRAFT		85	8	` `
306	LECTRICAL AIRCRAFT	•	93	06	0
175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	•	9/	76	7
360	LUBRICATE AIRCRAFT COMPONENTS	•	80	80	٣.
488 188	1	•	90	98	7.
4 6	CUMPLEIE AFIU FURMS 349 (MAINTENANCE DATA COLLECTION RECORD)	•	70	89	6.
אל הליל	TOW ALKCKAFT	•	78	74	0.
523	INSPEC! AIRCRAF! TIRES	•	83	83	∞.
48 18	SEKVICE AIRCRAFI TIRES		94	88	7.
77	GROUND AIRCRAFI	•	93	89	9.
4 2 4 4 4		•	88	84	
406 200	PERFURM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT		75	9/	6.
320			78	79	7
259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781				
	SEKIES STREET TO	•	69	73	∞.
474	SEKVICE ENGINES WITH OIL	•	91	83	Τ.
497	AKE ENGINE DIL SAMPLES	•	88	83	ω.
363	UPEN OR CLOSE ENGINE COWLINGS	•	88	88	4
36/		•	93	93	ω.
7/1	CUMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492	•	68	69	ω.
الا 13	INSPECT ACCESS PANELS	•	78	80	٣.
F4/5	NDOWS	5.96	54	63	5.99
2887	ADJUST SLIDING WINDOW LINKAGE OR LATCHING MECHANISMS	•	58	61	9.
1/0	CUMPLETE AIRCRAFT INSPECTION WORKCARDS	•	33	47	٣.
322	INSPECT AIRCRAFT SHOCK STRUTS	•	98	83	Ξ.
0000	UPERATE AIRCRAFT KADIUS	•	83	98	۲.
210		•	80	80	S.
<u> </u>	TENTON'Y THEODE INDIFICUTOR OF MAINTENANCE STANDS	•	74	74	ġ.

TE MEAN = 3.03, S.D. = 1.58TD MEAN = 5.00, S.D. = 1.00

C-5:

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C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 12

SAMPLE OF TASKS WITH HIGHEST C-130 TRAINING EMPHASIS RATINGS

			PERCENT MEMB PERFORMING	MEMBERS MING	
TASKS		TNG	1ST JOB	1ST ENL	TSK DIF
F411 PERFORM F306 CONNECT F470 REMOVE, F482 SERVICE F488 SERVICE F489 SERVICE F489 SERVICE F476 REMOVE, F476 REMOVE, F476 REMOVE, F360 OPERATE F360 OPERATE F360 PERFORM F320 INSPECT F484 SERVICE F484 PERFORM F321 INSPECT F485 ADJUST (F374 PERFORM F362 ADJUST (F374 PERFORM F374 PERFORM F374 PERFORM F374 PERFORM F375 JACK OR F357 JACK OR	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER REMOVE, REPLACE, OR REINSTALL TROOP DOOR NEGATOR SPRINGS SERVICE AIRCRAFT SHOCK STRUTS LAUNCH OR RECOVER AIRCRAFT SERVICE AIRCRAFT TIRES MARSHALA LIRES REMOVE, REPLACE, OR REINSTALL LIFERAFTS REMOVE, REPLACE, OR REINSTALL LIFERAFT SERIES OPERATE AIRCRAFT COCKPIT CONTROLS DURING TOWING OPERATIONS INSPECT AIRCRAFT ACCUMULATORS DERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT INSPECT AIRCRAFT ACCUMULATORS REMOVE, REPLACE, OR REINSTALL BRAKE ASSEMBLIES REMOVE, REPLACE, OR REINSTALL AIRCRAFT BATTERIES ADJUST LIFERAFT DOOR RELEASE LINKAGE OR LATCHING MECHANISMS ADJUST LIFERAFT DOOR RELEASE MECHANISMS REPORM OPERATIONAL CHECKS OF BLEED AIR SYSTEMS REMOVE, REPLACE, OR REINSTALL AIRCRAFT INSPECT LIFERAFT DOOR RELEASE MECHANISMS GROUND AIRCRAFT INSPECT WINDOWS OR WINDSHIELDS	6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	74 4 4 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8	4 4 4 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	35.99 36.39 37.29 37

TE MEAN = 3.14, S.D. = 1.45TD MEAN = 5.00, S.D. = 1.00

C-130:

TABLE 13

SAMPLE OF TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

	TNG	2.89	.40	2.51	•	1.33	2.71	20	. 29	49	3.78	2.48	. 98	2.04	.64	2.73
	45772	∞	ហ៩	16	ر در	ç	9	85	4	٢٠,	28	6	33	4	9	ഹ
	45752	12	24	13	w <u>t</u>	77	თ	Ç	) <del></del>	~	26	6	11	4	2	9
ENT ERS RMING	1ST ENL	6	0 -	9	α	0	7	~		1	12	9	9	2	0	4
PERCENT MEMBERS PERFORMING	1ST 308	т	00	. —	0 4	•			0	0	9	က	2	2	0	က
į	TSK DIF	7.51	7.46	7.29	7.29		7.22	7.21	7.21	7.20	7.18	7.10	7.08	7.05	7.04	7.00
	TASKS	G583 REMOVE, REPLACE, OR REINSTALL LANDING GEAR STRUTS D123 DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR SPECIALTY TRAINING STANDARDS	(STS) M925 TROUBLESHOOT PROPELLER SYNCHROPHASER SYSTEMS	TROUBLESHOOT ENGINE MALFUNCTIONS	M924 TROUBLESHOOT PROPELLER NEGATIVE TORQUE SYSTEMS B36 DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	REMOVE, REPLACE, OR REINSTALL LA	(TORQUE STRUTS) OR BOGIES A16 ESTABLISH ORGANIZATIONAL POLICIES, SUCH AS OFFICE INSTRUCTIONS (OI) AND STANDARD OPERATING		B43 DRAFT HIGHER HEADQUARTERS DIRECTIVES D122 DEVELOP CAREER DEVELOPMENT COURSES (CDC) OR	CURRICULA MATERIALS	PERFORM OPERATIONAL CHECKS OF	M901 PERFORM OPERATIONAL CHECKS OF PROPELLERS A8 DETERMINE LOGISTICS REQUIREMENTS, SUCH AS	PERSONNEL, SPACE, EQUIPMENT, OR S	SPOILER CONTRO	DEVELOP NEW EQUIPMENT TRAINING	1727 KEMUVE, KEPLAGE, OK REINSTALL ELEVATORS

TE MEAN = 2.88, S.D. = 1.47TD MEAN = 5.00, S.D. = 1.00

TABLE 13 (CONTINUED)

SAMPLE OF TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

TNG	EM BM BM BM BM BM BM BM BM BM BM BM BM BM		.30	3.05	2.39	2 07	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1 60	00.0	6.19		2.86				2,0		_
	45772	,	თ	7	11	ß	· =	•	~	,	۰ ۵	2	6	2	۳ (	۰ ۲	. α	Э '	ဖ
	45752	•	2	∞	6	4	6	•	P	۲ ۷	ه ۵	m	10	2	4	- α	) <b>(</b>	יכ	ഹ
ENT ERS RMING 1ST	EN	•	<b>)</b>	7	က	က	9	•	^	ПП	ი (	2	ω	-	2	ı,	~ ،	•	4
PERCENT MEMBERS PERFORMING 1ST 1ST	<u>108</u>	(	o '	4	0	<b>—</b>			-	• <	<b>+</b> c	7	7	0	_		·	٠.	-4
TSK	OIF			96.98	6.98		96.9		96.9	6 0 A		0.93	6.92	6.92	6.92	6.91	6.91		6.90
-	ASKS	C110 WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	TOOK AD HIST CLADS		MAZZ IKUUBLESHUOI ENGINE IHKOIILES	_	-	G594 TROUBLESHOOT LANDING GEAR CROSSWIND POSITIONING OR	CASTERING SYSTEMS		195 ADJICT CLATC	DIMONI DENIS	_	-	-	I684 ADJUST FLAP CONTROL MECHANISMS			•

TE MEAN = 2.88, S.D. = 1.47 TD MEAN = 5.00, S.D. = 1.00

# DISRIBUTION OF FIRST-ENLISTMENT AFSC 457X2 PERSONNEL ACROSS CAREER LADDER JOBS

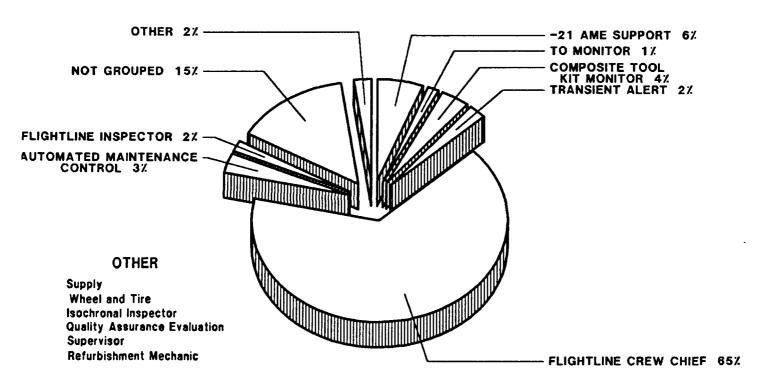


FIGURE 2

TABLE 14

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY FIRST ENLISTMENT AFSC 45,7X2 PERSONNEL

<u>n</u>	DUTIES	TOTAL 1ST ENL (N=812)	C-5 1ST ENL (N=178)	C-141 1ST ENL (N=232)	C-130 1ST ENL (N=170)
∢	ORGANIZING AND PLANNING	2	2	2	-
മ	DIRECTING AND IMPLEMENTING	1	7	-	•
ပ	INSPECTING AND EVALUATING	2	2	2	-
۵	TRAINING	П		1	•
ш	PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	11	7	10	7
ட	PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	44	45	49	48
G	MAINTAINING LANDING GEAR SYSTEMS	6	13	6	7
I	MAINTAINING UTILITY SYSTEMS	J.	œ	က	7
H	MAINTAINING FLIGHT CONTROL SYSTEMS	ဇ	က	က	m
ŋ	MAINTAINING PNEUDRAULIC SYSTEMS	4	4	က	4
¥	MAINTAINING FUEL SYSTEMS	2	2	2	2
ب	MAINTAINING ELECTRICAL SYSTEMS	4	2	4	ស
Σ	PERFORMING GENERAL ENGINE MAINTENANCE	4	ഹ	য	4
z	MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	7	r-1	1	1
0	MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	4	H	Z	ហ
۵	PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	4	ı	1	ស

- Indicates less than I percent

TABLE 15

# REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT 457X2 PERSONNEL (PERCENT PERFORMING)

TABLE 15 (CONTINUED)

# REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT 457X2 PERSONNEL (PERCENT PERFORMING)

	,				
		TOTAL 1ST ENL	C-5 1ST ENL	C-141 1ST ENL	C-130 1ST ENL
IASKS		(N=812)	(N=1/8)	(N=232)	(N=170)
L848	INSPECT EXTERNAL LIGHTS	65	74	65	75
6543	INSPECT LANDING GEAR STRUTS	65	83	62	74
F344	INSPECT SEAT LOCKING MECHANISMS	65	80	62	78
F353	INSPECT WINDOWS OR WINDSHIELDS	65	81	61	9/
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING				
	TAG)	64	9/	52	75

TABLE 16

EQUIPMENT ITEMS USED BY MORE THAN 30 PERCENT OF FIRST-ENLISTMENT AFSC 457X2 PERSONNEL (PERCENT RESPONDING)

EQUIPMENT	TOTAL	C-5	C-141	C-130
	1ST ENL	1ST ENL	1ST ENL	1ST ENL
	(N=812)	(N=178)	(N=232)	(N=170)
AIR COMPRESSOR, MC-1A AIR COMPRESSOR, MC-2A AIRCRAFT TOWBAR BOBTAIL JEEP CALAVAR, M-125 CART, HYDRAULIC SERVICING CART, NITROGEN PURGE CART, SERVICING OIL FLOODLIGHT SET, NF-2 GAS TURBINE COMPRESSOR, MA-1A GENERATOR, A-M32A-86 (HOBART) GROUND HEATER, H-1 HOIST, A-FRAME LANDOLL, TM-1800 MAINTENANCE PLATFORM/STAND, POWERED MAINTENANCE PLATFORM/STAND, NONPOWERED NITROGEN UNIT, LIQUID OXYGEN CART, LIQUID TOW VEHICLE, MB-2	57	60	54	68
	36	38	34	48
	70	71	70	82
	43	67	54	13
	24	76	9	4
	33	44	34	21
	32	48	40	11
	18	38	8	5
	72	85	73	78
	51	56	54	56
	60	70	61	61
	64	72	63	71
	1	15	9	38
	25	61	19	8
	31	78	24	12
	61	79	56	64
	25	36	26	9
	29	35	47	4
	73	86	75	81
	31	8	31	54
TOW VEHICLE, MB-2 TOW VEHICLE, MB-4 TOW VEHICLE, U-30 TRUMP DEICER	1	9	4	37
	19	39	17	11
	34	60	29	25
MAINTENANCE MATERIALS AND TOOLS  ADHESIVES CANNON PLUGS CLEANING AGENTS HANDTOOLS LUBRICANTS MULTIMETERS RESTRAINT HARNESS SEALANTS SECURING DEVICES SPECIAL TOOLS TORQUE WRENCHES	76 50 81 92 86 21 66 81 71 75	85 62 85 97 93 27 93 94 80 81 94	83 50 86 97 88 19 75 87 75 79	76 47 87 96 92 46 51 81 77 76

# Specialty Training Standard (STS)

For the purposes of reviewing the three WS Sup STS documents, USAFOMS personnel met with 3760 TTS/MAC Track personnel at Sheppard AFB, 463 LOGSS personnel at Dyess AFB, and 443 LSS/QTP personnel at Altus AFB. With their assistance, the tasks listed in the job inventory were matched to the STS line items. The end product of the match was used to produce a listing of the STS with job inventory tasks matched, percent members performing the tasks, and TE and TD ratings for each matched task. These listings were included in the training extracts sent to the school for review. Criteria set forth in AFR 8-13, AFR 8-13/ATC Supplement 1 (Attachment 1, paragraph A1-3c(4)), and ATCR 52-22 Attachment 1, were used to review the relevance of each element that had inventory tasks matched to it. General information, subject-matter knowledge, and supervisory responsibilities were not reviewed. Typically, tasks performed by 20 percent or more of personnel in appropriate experience or skilllevel groups, such as first enlistment (1-48 months TAFMS) and 5- and 7-skill level groups, should be considered for inclusion in an STS. Likewise, tasks with less than 20 percent performing in all of these groups should be considered for deletion from an STS.

<u>C-5 WS Sup STS</u>. Paragraphs in this STS with performance codes were reviewed. Out of close to 200 matched line items, 30 were found to be unsupported by occupational survey data. Paragraphs 4 and 5 contain 19 of the unsupported elements. A sample of C-5 WS Sup STS unsupported elements, with matched tasks and survey data, is included in Table 17 for review. The entire STS, as listed in the training extract, should be examined by career field managers and training personnel to determine which items should remain in the STS.

Tasks not matched to any element of the STS were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. Many tasks were found to be performed by more than the required 20 percent criteria group members. Table 18 contains several of the tasks with the highest percentages. Duty F, Performing General Airframe and Aircraft Maintenance, contained the largest number of tasks not matched. Functional personnel and SMEs need to review these unmatched tasks to determine if they suggest material that should be added to the STS.

<u>C-141 WS Sup STS</u>. Using the previously mentioned criteria, 35 elements were found unsupported, amounting to approximately 30 percent of the STS. Specifically, 17 unsupported elements were found within paragraph 4, Utility Systems, and 6 from paragraph 6, Hydraulic Systems. At least one unsupported element was found in every paragraph, except for paragraphs 9 and 10. A sample of these elements is included in Table 19 for review.

There are a number of tasks performed by more than 20 percent of criterion group members that are not matched to STS elements. Table 20 contains a partial listing of these tasks. As in the C-5 WS Sup STS, Duty F again contained the highest concentration of tasks not matched. These unmatched tasks need to be reviewed by SMEs and functional personnel for potential coverage in the STS.

TABLE 17

SAMPLE OF C-5 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERC	PERCENT MEMBERS PERFORMING	RS PERFOR	MING	
	C-5 TNG EMP	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
1k. ASSIST IN WEIGHT AND BALANCE						
E207 INITIATE WEIGHT AND BALANCE FORMS, SUCH AS DD FORM 365 SERIES F513 WEIGHT AIRCRAFT	1.77	5 0	00	0 1	210	5.99
21. SERVICE CREW/PASSENGER COMFORT FACILITIES	6	u	•	L	·	, 1
SERVICE CREW OR FASSENGE ESSURIZATION SYSTEM	7.0.7	<b>Ω</b> .	o	ഗ	c	3.79
H638 PERFORM OPERATIONAL CHECKS OF PRESSURIZATION SYSTEMS	2.91	6	11	19	19	5.63

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 17 (CONTINUED)

SAMPLE OF C-5 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFURMING)

		PERC	PERCENT MEMBERS PERFORMING	RS PERFOR	MING	
	C-5 TNG EMP	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
5d(1). SLATS						
I739 REMOVE, REPLACE, OR REINSTALL SLATS	2.89	6	15	16	18	6.44
7f(3). FILTERS						
M906 REMOVE, REPLACE, OR REINSTALL ENGINE FUEL FILTERS M910 REMOVE, REPLACE, OR REINSTALL ENGINE OIL FILTERS	3.15	ოო	10	16 13	13 15	4.92
8h(2). INSPECT IFR SYSTEM						
K824 INSPECT IFR SYSTEMS, OTHER THAN IN-PROGRESS INSPECTIONS K826 INSPECT IN-FLIGHT REFUELING SYSTEMS	3.15	3 10	mω	5 10	14 18	4.72

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 18

SAMPLE OF TECHNICAL TASKS PERFORMED 3Y MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 STS WS SUPPLEMENT

			PERC	PERCENT MEMBERS	RS PERFORMING	MING	
		C-5	C-5	C-5	C-5	C-E	TCK
TASKS	NOT REFERENCED		(N=80)	(N=178)	(N=215)	(N=135)	DIF
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS						
		6.19	69	73	72	61	4.82
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS	,	,	ļ	,		
	OR CARGO COMPARTMENTS	ഹ	64	73	89	44	∞.
F325	CARGO COMPARTMENT PRE	5.49	75	75	71	27	4.50
F326		۲.	75	77	70	56	9.
F327	CARG0	ഹ	80	83	9/	61	ο.
F328	CARGO	9.	69	74	69	57	ъ.
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	9.	64	73	70	26	4.
F331	CREW	۲.	70	75	71	28	τ.
F333	INSPECT CREW POSITION WORK TABLES	Ξ.	99	75	29	52	0.
F334	FIRE EXTINGUISHERS	4.	81	84	81	09	∞.
F338	LIFERAFT DOOR RELEASE MECHANI	9.	74	69	28	40	ω.
F341	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE						
	DOOR OR VISOR SEALS	•	79	81	9/	58	∞.
F342	INSPECT RADOMES	•	99	72	69	53	σ.
F343	INSPECT RAM AIR TURBINE (RAT) DOORS	4.32	65	70	29	51	3.85
F344	INSPECT SEAT LOCKING MECHANISMS	•	9/	80	74	61	9
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER						
	HARNESSES	∹	75	78	72	61	9.
F347	INSPECT SLIDING WINDOW MECHANISMS OR ROLLERS	9.	99	72	70	57	7.
F353	INSPECT WINDOWS OR WINDSHIELDS	5.72	81	81	73	61	3.97
F361	MARSHAL AIRCRAFT	Τ.	93	88	75	61	.5
F406		۲.	75	9/	<b>4</b> 9	26	6.

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 18 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 STS WS SUPPLEMENT

		PERC	PERCENI MEMBERS PERFORMING	RS PERFOR	MING	
	C-5	C-5	C-5	C-5	C-5	
	TNG	1ST JOB	1ST ENL	5-LVL	7-LVL	TSK
TASKS NOT REFERENCED	EMP	(N=80)	(N=178)	(N=215)	(N=135)	DIF
F407 PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	5.85	74	74	67	09	2.99
	5.72	88	79	9/	64	2.39
REMOVE, REPLACE, OR REINSTALL /	5.04	78	78	71	52	3.65
F434 REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH					l ·	,
	5.17	81	83	80	59	2.86
G551 INSPECT WHEEL ASSEMBLIES	5.40	70	71	29	26	4.19
INSPECT	4.70	74	70	61	48	3.79
	5.26	86	82	74	56	3.69
SERVICE	5.06	69	72	89	47	3.10
	5.02	79	74	89	53	3.60
K851 INSPECT INTERNAL LIGHTS	4.66	75	71	65	52	3.61

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 19

SAMPLE OF C-141 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFORMING)

			PERC	PERCENT MEMBERS PERFORMING	RS PERFOR	MING	
1		C-141 TNG EMP	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
1, T	1k. ASSIST IN WEIGHT AND BALANCE						
l	E207 INITIATE WEIGHT AND BALANCE RECORD FORMS, SUCH AS DD FORM 365 SERIES F513 WEIGHT AIRCRAFT	1.02	S	H 6	2	8 7	5.99
21	21. SERVICE CREW/PASSENGER COMFORT FACILITIES						
	F491 SERVICE CREW OR PASSENGER COMFORT FACILITIES	3.17	9	9	7	7	3.79
l &	3b(4). ANTI SKID						
	G558 PERFORM OPERATIONAL CHECKS OF LANDING GEAR ANTI SKID SYSTEMS	4.47		13	13	18	5.59

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 19 (CONTINUED)

SAMPLE OF C-141 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERC	PERCENT MEMBERS PERFORMING	RS PERFOR	MING	
	C-141 TNG EMP	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C~141 7-LVL (N=190)	TSK DIF
4b(3). PRESSURIZATION SYSTEM						
H638 PERFORM OPERATIONAL CHECKS OF PRESSURIZATION SYSTEMS	3.34	ო	5	o	11	5.63
5d(2). AILERON CONTROL WHEEL						
1721 REMOVE, REPLACE, OR REINSTALL AILERON CONTROL WHEELS (YOKE)	3.47	ø	7	∞	6	6.27
6g. DISCONNECT HYDRAULIC TEST STAND						
F307 CONNECT OR DISCONNECT HYDRAULIC TEST STANDS TO OR FROM AIRCRAFT	4.21	12	13	12	13	4.34
7j. PERFORM ENGINE REMOVAL PREPARATION						
M895 PERFORM ENGINE REMOVAL OR INSTALLATION PREPARATION	4.09	10	17	14	12	6.41

TABLE 20

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 WS SUPPLEMENT

C-141 C-141 C-141 C-141 IST JOB IST ENL S-LVL 7-L 152 JOB IST ENL S-LV		LUCINI	IN MEMBERS	S PERFORMING	TING	
PPLIES 5.98 44 52 54 49 3.0 EES A.96 52 61 56 47 4.5 RE DOORS 6.64 58 59 55 48 4.6 6.19 60 61 58 48 3.9 VICAL COMPONENTS 6.40 58 59 55 42 4.4 VICAL COMPONENTS 6.40 58 59 55 42 4.4 VICAL COMPONENTS 6.43 62 61 56 49 3.6 VICAL COMPONENTS COMPARTMENT LADDER 6.13 53 50 45 31 3.3 CHANISMS 6.28 63 61 57 49 3.6 COMPARTMENT SYSTEMS 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 7.26 83 78 70 55 4.3 XIENDISTMENT SYSTEMS 5.50 58 56 53 61 49 3.5 XIENDISTMENT SYSTEMS 5.50 59 55 59 59 59 59 59 59 59 59 59 59 59	C-141 TNG EMP	400	- 2	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
JPPLIES  JPPLIES  JPPLIES  4.96  5.2  4.96  5.2  5.2  5.2  5.2  5.2  5.2  5.2  5.		1				
CES RE DOORS	•			54	49	0.
AL REELS, OR SHOULDER  AL ADJUSTMENT SYSTEMS  AL EDOORS  ANICAL COMPONENTS  AL ADJUSTMENT SYSTEMS  AL DOOR ANICAL COMPONENTS  ANICAL COMPONENTS  BANICAL COMPONENTS  B	•			20	36	7
ANICAL COMPONENTS  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.19  6.10  6.11  6.11  6.11  6.12  6.11  6.12  6.11  6.12  6.11  6.12  6.11  6.12  6.11  6.12  6.12  6.13  6.28  6.13  6.28  6.13  6.28  6.14  6.13  6.28  6.14  6.15  6.15  6.15  6.16  6.16  6.17  7.26  83  7.26  83  7.26  83  7.26  83  7.26  84  7.26  83  7.26  84  7.26  83  7.26  84  7.26  83  7.26  84  78  79  70  70  70  70  70  70  70  70  70				26	47	٦
VICAL COMPONENTS  6.19  6.19  6.40  58  48  3.99  4.44  5.87  5.99  5.87  5.99  5.87  5.99  5.87  5.99  5.87  5.99  5.13  5.14  5.14  5.13				52	48	9
VICAL COMPONENTS 6.40 58 59 55 42 4.4  4.74 52 59 52 49 39 4.4  5.87 59 52 49 39 4.4  5.00	•			58	48	5
VS 5.87 59 52 49 39 4.4  S	•			55	42	4
SCOMPARTMENT LADDER 6.74 52 52 49 36 3.0 COMPARTMENT LADDER 5.13 53 50 45 31 3.3 CHANISMS 6.28 63 62 59 44 3.6 6.11 67 64 60 47 3.6 6.55 63 61 57 49 3.9 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 5.51 60 62 60 44 3.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 4.3 8.8 78 70 55 7.3 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	•			49	39	4.
COMPARTMENT LADDER  5.13 53 50 45 31 3.3  CHANISMS  6.28 63 62 59 44 3.6  6.11 67 64 60 47 3.6  6.55 63 61 57 49 3.9  7.26 83 78 70 55 4.3  7.47 76 72 61 49 3.5  AT ADJUSTMENT SYSTEMS 5.28 56 56 45 57 3.9  SERVICING EQUIPMENT 6.53 55 58 56 57 57 3.9  NTENANCE STANDS  5.94 50 68 62 55 53 42 3.9  STANDS  5.94 50 68 62 59 45 5.29  5.95 70 68 62 55 73	•			49	36	0
CHANISMS 6.43 6.28 6.28 6.3 6.28 6.43 6.28 6.43 6.28 6.43 6.28 6.44 6.28 6.43 6.28 6.44 6.28 6.44 3.6 6.11 67 6.15 6.55 63 61 57 49 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.					1	,
AL REELS, OR SHOULDER 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28	Ξ.		20			٣.
AL REELS, OR SHOULDER 6.11 67 64 65 61 6.55 63 61 57 49 3.9 7.26 83 78 70 55 4.3 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 73 84 74 3.8 74 75 76 76 76 77 78 78 78 79 70 70 70 70 70 70 70 70 70 70 70 70 70	4.		61			٣.
AL REELS, OR SHOULDER  6.11 67 64 60 47 3.6 6.55 63 61 57 49 3.9 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 7.47 76 62 60 44 3.8 AT ADJUSTMENT SYSTEMS 5.28 56 56 49 40 3.9 SERVICING EQUIPMENT 6.53 55 58 56 45 3.9 VIENANCE STANDS 5.94 50 68 67 55 2.3	Š		62			9
6.11 67 64 60 47 3.6 6.55 63 61 57 49 3.9 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 7.47 76 72 61 49 3.5 8.8 5.51 60 62 60 44 3.8 8.8 5.60 58 56 53 42 3.8 8.8 5.28 56 56 49 40 3.9 8.8 8.8 5.28 56 56 49 40 3.9 8.8 8.8 5.28 56 56 49 40 3.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8						
6.55 63 61 57 49 3.9 7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 5.51 60 62 60 44 3.8 AT ADJUSTMENT SYSTEMS 5.28 56 56 49 40 3.9 SERVICING EQUIPMENT 6.53 55 58 56 45 3.9 ATENANCE STANDS 5.94 50 68 62 55 2.3	Τ.	29	64	9		9
7.26 83 78 70 55 4.3 7.47 76 72 61 49 3.5 5.51 60 62 60 44 3.8 3.60 LOADING AT ADJUSTMENT SYSTEMS 5.28 56 56 49 40 3.9 SERVICING EQUIPMENT 6.53 55 58 56 45 3.9 VTENANCE STANDS 5.94 50 68 62 55 2.3	ა.	63	61	57		6
7.47 76 72 61 49 3.5 560 LOADING 5.51 60 62 60 44 3.8 5.60 58 56 53 42 3.8 5.60 58 56 49 40 3.9 5.28 56 58 56 49 40 3.9 5.94 50 57 58 51 2.9 5.96 70 68 62 55 2.3	۲,	83	78	70		٣.
CLOSE TAIL CONES  CLOSE TAIL CONES  OPERATIONAL CHECKS OF CARGO LOADING  IZER STRUTS  OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS 5.28 56 56 49 40 3.9  PREUSE INSPECTION OF LOX SERVICING EQUIPMENT 6.53 55 58 56 45 3.9  PREUSE INSPECTION OF MAINTENANCE STANDS 5.94 50 57 58 51 2.9  A AGE TO AIRCRAFT 5.96 70 68 62 55 2.3	4.	9/	72	61		2
OPERATIONAL CHECKS OF CARGO LOADING         5.60         58         56         53         42         3.8           IZER STRUTS         5.60         58         56         49         40         3.9           OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS         5.28         56         49         40         3.9           PREUSE INSPECTION OF LOX SERVICING EQUIPMENT         6.53         55         53         53         9           PREUSE INSPECTION OF MAINTENANCE STANDS         5.94         50         57         58         51         2.9           AGE TO AIRCRAFT         5.96         70         68         62         55         2.3	ა.	09	62	09		$\infty$
1ZER STRUTS       5.60       58       53       42       3.8         OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS       5.28       56       56       49       40       3.9         PREUSE INSPECTION OF LOX SERVICING EQUIPMENT       6.53       55       58       51       2.9         PREUSE INSPECTION OF MAINTENANCE STANDS       5.94       50       57       58       51       2.9         N AGE TO AIRCRAFT       5.96       70       68       62       55       2.3						
OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS 5.28 56 56 49 40 3.9 PREUSE INSPECTION OF LOX SERVICING EQUIPMENT 6.53 55 58 56 45 3.9 PREUSE INSPECTION OF MAINTENANCE STANDS 5.94 50 57 58 51 2.9 N AGE TO AIRCRAFT 5.96 70 68 62 55 2.3	9.	28	26			$\infty$
PREUSE INSPECTION OF LOX SERVICING EQUIPMENT 6.53 55 58 56 45 3.9 PREUSE INSPECTION OF MAINTENANCE STANDS 5.94 50 57 58 51 2.9 A AGE TO AIRCRAFT 55 5.36	۲.	26	26			ο.
PREUSE INSPECTION OF MAINTENANCE STANDS 5.94 50 57 58 51 2.9 A AGE TO AIRCRAFT 55 5.36 70 68 62 55 2.3	.5	55	58			6
TION AGE TO AIRCRAFT 55 2.3	6.	20	57			6
	6	70	89			~
	~	111 ANA ANA ANA ANA ANA ANA ANA	C-141 C-14 TNG IST J FMP (N=10 6.23 622 6.23 623 6.19 66 6.40 58 6.23 623 6.40 58 6.43 662 6.28 63 7.26 83 7.26 83 7.47 76 5.51 663 5.52 5.53 5.53 5.94 56	C-141 C-141 C-141 TNG IST JOB IST TNG S.98 44 52 62 62 62 62 62 62 62 62 62 62 62 62 62	C-141 C-141 C-141 TNG IST JOB IST ENL 5-LV EMP (N=102) (N=232) (N=33) (N	C-141 C-141 C-141 C-141 C-170 EMP IST ENL IST JOB IST ENL 5-LVL 7-LVL FN

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 20 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 WS SUPPLEMENT

				PERCE	PERCENT MEMBERS PERFORMING	S PERFORM	ING	
			C-141	C-141	C-141	C-141	C-141	
			1NG	1ST J0B	1ST ENL	5-LVL	<b>7-LV</b> L	TSK
TASKS	TASKS NOT REFERENCED		EMP	(N=102)	(N=232)	(N=332)	(N=190)	OIF
F430	REPLACE, OR REINSTALL	CCESS PANELS	5.83	09	61	61	46	3.65
F434	OR REINSTALL	AIRCRAFT HARDWARE, SUCH						
÷	AS SCREWS OR FASTENERS		5.70	75	72	68	51	2.86
F447	REPLACE, OR REINSTALL	. CREW ENTRANCE LADDERS	4.77	52	56	52	39	4.39
F449	E, OR REINSTALL	REW SEATS	5.74	58	61	58	43	4.11
F458	E, OR REINSTALL	ADOMES	5.70	54	<b>2</b> 6	53	41	5.08
F467	REPLACE, OR REINSTALL	AIL CONES	5.15	48	56	55	36	4.67
F477	E, OR REINSTALL	ING LEADING EDGES	5.81	57	63	62	46	5.41
F501	TOW NONPOWERED AGE		4.55	48	54	48	45	3.03
6552	INSPECT WHEEL BEARINGS		5.32	49	20	44	35	4.32

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

<u>C-130 WS Sup STS</u>. Upon review, the C-130 STS yielded 15 elements unsupported under the review criteria. Paragraphs 3 (Landing Gear Systems), 4 (Utility Systems), and 6 (Pneudraulic Systems) contain most of the elements needing review. Examples of these can be seen in Table 21.

Table 22 contains a short listing of tasks not matched to the C-130 WS Sup STS. These tasks are contained under several duty categories, but Duty F (General Airframe and Aircraft Maintenance), Duty L (Maintaining Electrical Systems), and Duty P (Performing CAMS Activities) contain a high number of unmatched tasks. SMEs and functional personnel should also review these tasks for possible inclusion in the STS.

## STS Summary

Overall, a majority of the matched portions of the three WS Sup STSs are supported by survey data using criteria set forth in AFR 8-13/ATC Sup 1 and ATCR 52-22, Atch 1. Many of the unsupported areas are the same in all the three Weapon Systems Supplements, specifically paragraphs 4 and 6 which repeatedly revealed low percent members performing matched tasks. Also, a large number of tasks in Duty F were unmatched to all three documents.

## Qualification Training Program (QTP)

Normally, the basic ABR courses taught at Sheppard AFB would have been reviewed for this report. However, since these courses primarily teach fundamentals knowledge rather than "hands-on" training, a review against OSR data was not conducted. Since most of the "hands-on" training for this AFSC occurs at the base of assignment under the QTP for each of the major aircraft, an in-depth review of these programs was conducted for this report.

The same personnel at Altus, Dyess, and Sheppard AFBs who reviewed the WS Sup STS documents also matched the inventory tasks to learning objectives of the QTPs. A computer product was created for the QTPs listing each learning objective, tasks matched, percent first-job and first-enlistment members performing, and TD ratings. Learning objectives with tasks matched were reviewed using criteria found in ATCR 52-22, Attachment 1 (Feb 89). Any objective matched to tasks performed by less than 30 percent first-job or first-enlistment members is considered unsupported and should be reviewed by training personnel.

<u>C-5 QTP</u>. Using the criteria set forth in ATCR 52-22, all but eight objectives matched to tasks were supported. The unsupported objectives are: I 4E, Supply Form Documentation; I 4F, Technical Orders; I 4G, AFTO Forms 244, 245 (AGE Documentation); I 4H, Initiate A Material Deficiency Report (MDR); I 13B(1), Remove and install main landing gear doors (T.O. 1C-5A-2-10); I 13(10), Remove/replace and stow descent reels (T.O. 1C-5A-2-2); I 13C(4), Remove and install an engine starter control valve (T.O. 1C-5A-2-4); and I 13C(6), Remove and replace engine fluid filters (ENG, CSD, TR, FUEL). A

TABLE 21

SAMPLE OF C-130 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERC	ENT MEMBE	PERCENT MEMBERS PERFORMING	MING	
	C-130 TNG EMP	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	C-130 5-LVL (N=281)	C-130 7-LVL (N=196)	TSK
3c(1). LANDING GEAR SYSTEM						3
F296 BLEED PNEUDRAULIC SYSTEMS	3.80	σ	19	27	23	5.59
4c(3). PRESSURIZATION SYSTEM						
H622 INSPECT PRESSURIZATION SYSTEM	3.31	4	19	24	24	5.23
5c(2). TRIM TAB ACTUATORS						
1744 REMOVE, REPLACE, OR REINSTALL TRIM TAB ACTUATORS	3.18	<b>2</b> °	11	16	12	6.08
6d(3). FITTINGS	•					
J803 REMOVE, REPLACE, OR REINSTALL HYDRAULIC SYSTEM PLUMBING, SUCH AS WIGGIN FITTINGS AND SWIVELS	3.18	13	12	14	11	5.19

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

TABLE 21 (CONTINUED)

SAMPLE OF C-130 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW (LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERC	PERCENT MEMBERS PERFORMING	RS PERFOR	MING	
	C-130 TNG	C-130 1ST JOB	C-130 1ST ENL	C-130 5-LVL	C-130 7-LVL	TSK
		(N=48)	(N=170)	(N=281)	(N=196)	DIF
8e. TROUBLE PROPELLER SYSTEM						
M924 TROUBLESHOOT PROPELLER NEGATIVE TORQUE SYSTEMS M925 TROUBLESHOOT PROPELLER SYNCHROPHASER SYSTEMS	2.49	00	<b>4</b> K	12 13	16 16	7.29
9g(2). INSPECT IFR SYSTEM						
K824 INSPECT IFR SYSTEMS, OTHER THAN IN-PROGRESS INSPECTIONS	2.90	17	16	56	18	4.72

TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

C-130:

TABLE 22

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 WS SUPPLEMENT

			PERC	ENT MEMBE	PERCENT MEMBERS PERFORMING	MING	
		C-130 TN3	C-130 1ST JOB	C-130 1ST ENL	C-130 5-LVL	C-130 7-LVL	TSK
TASKS	S NOT REFERENCED	EMP	(N=48)	(N=170)	(N=281)	(N=196)	OIF
F318	T ACCESS D	•	69	78	80	55	3.54
F322	T AIRCRAFT SHOCK STRUT	•	73	75	9/	57	4.13
F329	CREW ENT	5.39	69	71	73	51	4.
F334	IT FIRE EXTINGUISHERS	•	85	84	80	52	∞.
F338			58	72	72	20	ω.
F342		•	73	9/	78	54	σ.
F344	SEAT LOCKING MECHAN	•	79	78	79	51	9.
F351	INSPECT TROOP DOOR MECHANICAL COMPONENTS	•	29	71	70	49	4.06
F353	WINDOWS OR WINDSHIE	•	73	9/	9/	50	ο.
F361		•	83	78	75	49	ъ.
F374	OPERATIONAL CHECKS OF BLEED	•	73	72	73	46	6.
F375	CHECKS OF	•	29	72	75	47	$\infty$
F387	OPERATIONAL CHECKS OF TROOP	•	69	73	73	45	ω
F393	I PREUSE INSPECTION OF AIRC	•	77	9/	9/	51	٣.
F406	PREUSE INSPECTION OF LOX SERVICIN	•	79	9/	75	45	6.
F407	CTION OF MAINTENANCE ST	•	69	71	74	54	σ.
F411	SINGLE-POINT AIRCRAF	•	73	74	75	52	∞.
F413	OSITION AGE TO AIRCRAFT	•	79	75	72	52	٣.
F449	EMOVE, REPLACE, OR REINSTALL CREW	•	79	78	78	45	
47	REPLACE, OR REINSTALL	•	29	75	79	42	4.
F487	ERVICE AIRCRAFT	•	77	77	77	46	7
	ERVICE AIRCRAFT SHOCK STRUT	•	75	77	78	46	7
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	•	81	81	80	25	9.

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

TABLE 22 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 WS SUPPLEMENT

		TSK	DIF	l	3 47	· ·	3.84	4 46	2	3.00	3 60	20.0	2.40	3.48	
MING	C-130	7-LVL	(N=196)		34	ר ר ב	<u>ک</u>	52	0 0	9	22	J V	9	45	
3S PERFOR	C-130	5-LVL	(N=281)		63	7 0	ς,	75	29	30	73	7.1	7 /	70	
PERCENT MEMBERS PERFORMING	C-130	1ST ENL	(N=170)		65	7 0	٦,	74	64	<b>-</b>	75	7.1	7 /	89	
PERCE	C-130	1ST JOB	(N=48)		7.1	. 6	70	69	73	2 1	75	9	>	71	
	C-130	TNG	EWD		4.69	70 7	00.0	5.61	т т		4.84	76 7		4.94	
			IASKS NO! KEFERENCED		F512 WASH AIRCRAFT				H663 SERVICE GTCs		INSTECT EXTERNAL LIGHTS	K856 PERFORM OPERATIONAL CHECKS OF EXTERNAL LIGHTS	The state of the s	INIERNAL	

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00 sample of these objectives and accompanying survey data is included in Table 23. School personnel and SMEs should review these unmatched objectives to ensure they are appropriate for the QTP.

There are also a number of tasks performed by more than 30 percent of first-job or first-enlistment C-5 personnel that were not matched to the QTP (see Table 24). Many of these tasks are in Duty F, Performing General Airframe and Aircraft Maintenance, but several can be found in Duty K (Maintaining Fuel Systems), Duty L (Maintaining Electrical Systems), and Duty M (Performing General Engine Maintenance). These tasks should be reviewed by school personnel and SMEs to see if they suggest topics that should be included.

C-141 QTP. As with the C-5 QTP, the learning objectives with tasks matched were reviewed to determine unsupported items. Ten objectives were found to not have the required 30 percent of first-job or first-enlistment personnel performing key tasks. Cbjectives I 4E, I 4F, I 4G, and I 4H are the same as in the C-5 QTP and again are unsupported. The other unsupported QTP learning objectives are: I 4I, Maintain Personnel Training Records; 623s (AFR 50-23); I 13A(1), Locate major components; I 13B(15), Perform an operational check of the ADS chute release components; I 13C(8), Remove and replace engine fluid filters (ENG, CSD, TR, FUEL); I 14I, Rain Removal System (1C-141B-2-30JG-40-1); and I 14K, Air Conditioning System (1C-141-2-21JG-50-1). A sample of these objectives is included in Table 25. To ensure they are appropriate for the QTP, school personnel and SMEs should review the unmatched objectives.

Table 26 contains tasks performed by more than 30 percent of first-job or first enlistment personnel that were not matched to the C-141 QTP. All but two of the tasks are located under Duty F, Performing General Airframe and Aircraft Maintenance. SMEs and school personnel should review these tasks to determine if they suggest topics to be included.

 $C-130\ \ QTP$ . Most objectives of the C-130 QTP were found to be supported by survey data. As in the previous two QTPs, objectives I 4G and I 4H were found to be unsupported. In addition, other objectives which did not have the required 30 percent performing include I 7F, Aircraft Towbars; I 12I, Service GTC/APU; and I 13B(9), Remove and install aircraft hatches (1C-130). Selected objectives are included in Table 27 for reference. These objectives should be reviewed by school personnel and SMEs for inclusion in the C-130 QTP.

Tasks with 30 percent or more performing first-job or first-enlistment personnel that were not matched are included in Table 28. Again, as in the two previous QTPs, many of the tasks are from Duty F, yet several are concentrated in Duty P, Performing CAMS Activities. These tasks should be reviewed by school personnel and SMEs to see if possible topics should be included in the C-130 QTP.

TABLE 23

SAMPLE OF C-5 QTP LEARNING OBJECTIVES REQUIRING REVIEW (LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
	C-5 TNG EMP	C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK DIF
I 4F. TECHNICAL ORDERS (T.O.s)					}
	2.32	2	ო	4	5.06
EZSI KESEAKCH IECHNICAL UKDEKS IU IDENIIFY CUMPUNENIS UK ITEMS OF EQUIPMENT	2.81	2	70	59	4.68
I 4G. AFTO FORMS 244, 245 (AGE DOCUMENTATION)					
E173 COMPLETE AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT EQUIPMENT RECORD) N942 PERFORM PREUSE INSPECTIONS OF NONPOWERED AGE	3.09 4.55	7	24 38	22	3.53
I 4H. INITIATE A MATERIAL DEFICIENCY REPORT (MDR)					
E183 COORDINATE DEFICIENCY OR SERVICE REPORTS WITH APPROPRIATE AGENCIES F208 INITIATE ANNOTATE OR COMPLETE MATERIAL DEFICIENCY	.70	7	0	2	5.00
REPORTS (MDR)	2.28	2	10	11	5.50

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 23 (CONTINUED)

SAMPLE OF C-5 QTP LEARNING OBJECTIVES REQUIRING REVIEW (LESS THAN 30 PERCENT MEMBERS PERFORMING)

			PERCEN	PERCENT MEMBERS PERFORMING	ERFORMING	
		C-5 TNG	C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK
I 13B(1).	I 13B(1). REMOVE AND INSTALL MAIN LANDING GEAR INNER DOORS					
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	5.62	18	53	62	4.59
6575	ITEMS OF EQUIPMENT  REMOVE, REPLACE, OR REINSTALL LANDING GEAR DOORS	2.81 3.51	7	20 11	29 11	4.68 5.56
I 13C(4).	I 13C(4). REMOVE AND INSTALL AN ENGINE STARTER CONTROL VALVE					
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES DEMOVE DEDIACE OF DETANTALL ENGINE STADTED	5.62	18	53	62	4.59
1100	CONTROL VALVES	2.91	2	6	18	5.54

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 24

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 QTP LEARNING OBJECTIVES

			PERCENT	MEMBERS	PERFORMING	
TON SASAT		C-5 TNG	C-2	C-5 1ST JOB	C-5 1ST ENL	TSK
I ASK	- 1	ЕМР	ATI	(N=80)	(N=178)	DIF
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR					
	COMPARTMENTS	υ.	œ	64	73	•
F311	AIRCRAFT REFUELING OR D	5.74	18	25	51	5.57
F338		9.	18	74	69	
F364	CLOSE RADOMES	7.		49	09	•
F377	OPERATIONAL CHECKS OF	Ξ.	18	09	62	
F380				1	!	•
	R SYSTEMS	4.55	17	41	53	
F386	M OPERATIONA		18	54	61	•
F425	SNOW OR ICE FROM AIRCRA	•	18	49	53	
F475	REPLACE, OR REINSTALL	•	18	54	63	•
F476	REPLACE, OR REINSTALL WINDSHI		18	53	54	6.28
F492	STANT SPEED		18	51	26	•
F501	_	•	17	43	26	
6525	<b>-</b> 1	•	18	41	51	
6552		•	17	55	54	
6590		•	18	43	54	4.65
H615	ESCA		18	59	57	•
K823	FUEL VENT OUTLETS	•	18	71	65	•
K827	T SINGLE-POINT FUEL RECEP		18	79	72	٠ ،
K835	E AIRCRAFT	5.19	18	40	20	5.12
K848	CT EXTERNAL LIGHTS	•	18	79	74	•
K849	INSPECT EXTERNAL POWER RECEPTACLES		18	9/	74	•

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 24 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 QTP LEARNING OBJECTIVES

	C-5		C-5	C-5	
	1NG	C-5	1ST JOB	1ST ENL	TSK
	EMP	<u>ATI</u>	(N=80)	(N=178)	DIF
OR CIRCUIT BREAKER PANELS	4.45	17	56	'n.	4 00
VAL LIGHTS	4.66	<u>«</u>	75	25	. 6
CE, OR REINSTALL AIRCRAFT BATTERY BOXES OR	) )	2	)	•	
	5.04	18	64	99	4 18
CE, OR REINSTALL STROBE LIGHTS	4.45	17	55	) <u>(</u>	4 41
NLET OR EXHAUST AREAS	5.38	18	20	יירי יירי	4 29
	5.23	2 0	73	72	7. 7
æ ≪		)	) `	1,	
	4.60	17	9	59	4 08
OUT DOORS	4.57	17	56	7. 4.	4.0
E APRONS	3.83	17	53	57	4.51
E NACELLES	4.51	17	59	53	4.40
	TASKS NOT REFERENCED  K850 INSPECT FUSE OR CIRCUIT BREAKER PANELS  K851 INSPECT INTERNAL LIGHTS  K862 REMOVE, REPLACE, OR REINSTALL AIRCRAFT BATTERY BOXES OR  TRAYS  K866 REMOVE, REPLACE, OR REINSTALL STROBE LIGHTS  M874 INSPECT AIR INLET OR EXHAUST AREAS  M875 INSPECT ADUS  M876 INSPECT AUXILIARY AIR DOORS, SUCH AS FLIPPER OR SUCKER  DOORS  M878 INSPECT BLOW-OUT DOORS  M880 INSPECT ENGINE APRONS  M889 INSPECT ENGINE AARONS	TNG EMP OR CIRCUIT BREAKER PANELS AAL LIGHTS CE, OR REINSTALL AIRCRAFT BATTERY BOXES OR 5.04 4.45 CE, OR REINSTALL STROBE LIGHTS ALET OR EXHAUST AREAS CARY AIR DOORS, SUCH AS FLIPPER OR SUCKER 4.60 DUT DOORS E APRONS E APRONS E NACELLES  110G 110G 110G 110G 110G 110G 110G 11	ACIRCUIT BREAKER PANELS E, OR REINSTALL AIRCRAFT BATTERY BOXES OR E, OR REINSTALL STROBE LIGHTS LET OR EXHAUST AREAS UT DOORS, SUCH AS FLIPPER OR SUCKER APRONS NACELLES	TNG C EMP A  R CIRCUIT BREAKER PANELS  AL LIGHTS  E, OR REINSTALL AIRCRAFT BATTERY BOXES OR  E, OR REINSTALL STROBE LIGHTS  5.04  4.45  5.23  ARY AIR DOORS, SUCH AS FLIPPER OR SUCKER  4.60  UT DOORS  APRONS  NACELLES  A 1.51	TNG C-5 EMP ATI  R CIRCUIT BREAKER PANELS  AL LIGHTS E, OR REINSTALL AIRCRAFT BATTERY BOXES OR E, OR REINSTALL STROBE LIGHTS F. 23 18 5.23 18 5.23 18 ARY AIR DOORS, SUCH AS FLIPPER OR SUCKER  AT DOORS  NACELLES  A + 57 17 A + 57 17 A + 51 17

C-5: TE MEAN = 3.03, S.D. = 1.58 TD MEAN = 5.00, S.D. = 1.00

TABLE 25

SAMPLE OF C-141 QTP LEARNING OBJECTIVES REQUIRING REVIEW (LESS THAN 30 PERCENT MEMBERS PERFORMING)

			PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
TASKS NOT	TASKS NOT REFERENCED	C-141 TNG EMP	C-141 ATI	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	TSK DIF
I 4I. MAI	I 41. MAINTAIN PERSONNEL TRAINING RECORDS, 623s (AFR 50-23)					
0144	D144 PREPARE JOB QUALIFICATION STANDARDS (JQS)	1.32	2	0	-	5.98
I 13A(1).	I 13A(1). LOCATE MAJOR COMPONENTS					
E251	E251 RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR	3 04	^	10	<b>V</b> C	0 7
G514 1795	ADJUST BRAKE SYSTEM MECHANICAL COMPONENTS  DEMOVE DEDIACE OF DETAKTALL DRAKE SYSTEM	4.13	7	12	13	5.71
	COMPONENTS, OTHER THAN MECHANICAL COMPONENTS	3.36	7	11	14	5.56
1 138(15).	. PERFORM AN OPERATIONAL CHECK OF THE ADS CHUTE RELEASE COMPONENTS AS MISSION REQUIRES	·				
0971	PERFORM OPERATIONAL CHECKS OF ADS CHUTE RELEASE COMPONENTS	3.77	7	10	13	4.74

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TAB' E 25 (CONTINUED)

SAMPLE OF C-141 QTP LEARNING OBJECTIVES REQUIRING REVIEW (LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
	C-141 TNG	C-141	C-141 1ST JOB	C-141 1ST ENL	TSK
TASKS NOT REFERENCED	EMP	ATI	(N=102)	(N=232)	DIF
I 14I. RAIN REMOVAL SYSTEM					
H625 INSPECT WINDSHIELD RAIN REMOVAL SYSTEMS H641 PERFORM OPERATIONAL CHECKS OF WINDSHIELD RAIN REMOVAL	4.38	7	14	16	4.55
SYSTEMS	3.43	7	11	17	4.58
I 14K. AIR-CONDI 'NING SYSTEM					
H629 PERFORM OPERATIONAL CHECKS OF AIR-CONDITIONING SYSTEM	4.66	7	13	21	5.35

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 26

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 QTP LEARNING OBJECTIVES

			PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
		C-141		C-141	C-141	
		TNG	C-141	1ST JOB	1ST ENL	TSK
TASKS	TASKS NOT REFERENCED	EMP	ATI	(N=102)_	(N=232)	OIF
	ADJUST CREW ENTRANCE DOOR ACTUATING MECHANISMS	5.23	12	31	31	5.90
	ADJUST SEAT LOCKING MECHANISMS	5.83	12	37	45	4.94
F288	T SLIDING WINDOW LINKAGE OR LATCHING MECHANISMS	5.96	12	36	44	5.36
	CLEAN INTEKTUR OF AIRCRAFT, SUCH AS CREW CUMPARTMENTS UR CARGO COMPARTMENTS	5.06	13	09	61	2 80
	DIRECT AIFCRAFT REFUELING OR DEFUELING OPERATIONS	5.96	12	31	46	5.57
'n	OPERATE AIRCRAFT COCKPIT CONTROLS DURING TOWING OPERATIONS	6.45	18	52	5.5	4.20
F374	CHECKS	5.64	12	33	36	4.97
0	PERFORM OPERATIONAL CHECKS OF CREW ENTRANCE DOOKS OR					
	LADDERS	5.98	18	54	53	3.99
F380	PERFORM OPERATIONAL CHECKS OF FLIGHT STATION OR TROOP					
	COMPARTMENT LADDER SYSTEMS	4.79	15	45	39	3.92
F382	PERFORM OPERATIONAL CHECKS OF INSTRUMENT SYSTEMS	4.00	7	29	56	5.47
	00R	5.00	15	27	39	4.60
	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE DOOR LATCHING					
	ISM COMPONEN	4.77	7	56	28	5.56
F445	REPLACE, OR REINSTALL	4.68	7	28	27	5.58
	, REPLACE, OR REINSTALL	3.85	15	35	38	3.82
	REINSTA					
	<b>STMENT LADDER</b>	3.96	_	56	28	4.28
F452	ACE, OR					
	STABILIZER LEADING EDGES	5.13	12	30	35	5.47
F454	REMOVE, REPLACE, OR REINSTALL LIFERAFT DOORS	4.94	15	33	39	4.73

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 26 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 QTP LEARNING OBJECTIVES

			PERCEN	PERCENT MEMBERS PERFORMING	ERFORMING	
		C-141		C-141	C-141	
5 % O 4 F		LNG	C-141	1ST JOB	1ST ENL	TSK
IASK	ASKS NOT REPEKENCED	EMP	ATI	(N=102)	(N=232)	DIF
F455	œ					
	COMPONENTS	5.19	12	28	30	F 22
F462	REMOVE, REPLACE, OR REINSTALL SEAT LOCKING MECHANISM		] 1	) )	2	0.63
•	COMPONENTS	4.81	75	28	32	7 30
F464	REMOVE, REPLACE, OR REINSTALL SHOULDER HARNESS INERTIAL		) t	7	7	, ,
		4 94	7	7.	74	10
F465	REMOVE, REPLACE, OR REINSTALL SLIDING WINDOW LINKAGE OR	- )	2	7	r o	. · ·
	LATCHING MECHANISM COMPONENTS	5 02	7.	26	2.4	00
F475	REMOVE, REPLACE, OR REINSTALL WINDOWS	6.40	ξ	3 <u>r</u>	+ ¢	. u
F476	REPLACE.	000	1 1	T 0	70	. y
F477	REDIACE OR DETNOTALL WING LEADING	0.50	75	o i	4. V	97.9
7073		3.8T	Σ	کر	63	5.41
0010	AIRCRAFI LIQUID NIIR	5.19	11	35	56	4.52
<b>G</b> 546		5.77	12	40	44	4 52
H616	INSPECT FIRE EXTINGUISHING OR SUPRESSION SYSTEMS	5.19		27	σ,	
1741	REMOVE, REPLACE, OR REINSTAIL SPOTIFR PANELS	4 74	1 <del>L</del>	, ,	2 6	, · ·
K819	IN FUEL TANKS	4.74		27	35 26	74.0
KRAR	בוונו	, r	7 .	21	00	4.10
202	THE THE AINCHAIL FOR FUEL CELL MAINIENANCE	5.4/	12	38	45	5.12

C-141: TE MEAN = 3.33, S.D. = 1.73 TD MEAN = 5.00, S.D. = 1.00

TABLE 27

SAMPLE OF C-130 QTP LEARNING OBJECTIVES REQUIRING REVIEW (LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT	MEMBERS	PERCENT MEMBERS PERFORMING	
	C-130 TNG EMP	C-130 ATI	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	TSK DIF
I 4H. INITIATE A MATERIAL DEFICIENCY REPORT (MDR)					
E208 INITIATE, ANNOTATE, OR COMPLETE MATERIAL DEFICIENCY REPORTS (MDR)	2.55	2	7	m	5.50
I 7F. JB-1 HOIST (A-FRAME)					
E173 COMPLETE AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT EQUIPMENT RECORD) F401 PERFORM PREUSE INSPECTION OF HOISTS	3.59 4.16	7 7	25 8	21 28	3.53
I 12I. SERVICE GTC/APU					
E204 INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES H661 SERVICE APUs	5.63	18	52 17	52 22	4.59
I 13B(9). REMOVE AND INSTALL AIRCRAFT HATCHES (1C-130)					
F428 REMOVE, REPLACE, OR REINSTALL ACCESS HATCH LATCHING MECHANISMS	4.29	7	21	59	5.17

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

TABLE 28

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 QTP LEARNING OBJECTIVES

			PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
		C-130		C-130	C-130	
TACKS	A SECTION OF THE PROPERTY OF T	1NG	C-130	1ST JOB	1ST ENL	TSK
IASKS	NOT REFERENCED	T E	AIT	N=48)	TOLTEN	UIL
E212	$\circ$	5.22	18	20	55	
F289	ADJUST SWING WINDOW LATCHING MECHANISMS	•	12	59	48	
F311	AIRCRAFT REFUELING OR	5.73	18	53	53	5.57
F332	INSPECT CREW OR PASSENGER COMFORT FACILITIES	•	17	48	26	
F333	CREW POSITION WORK TA	•	17	35	52	
F341	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE DOOR OR					
	SEALS	4.57	17	38	26	•
F447	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE LADDERS	3.92	17	35	51	4.39
F456	REPLACE, OR REINSTALL	•	18	65	72	•
F462	REPLACE, OR REINSTALL					
		4.24	17	31	54	4.38
F463	REMOVE, REPLACE, OR REINSTALL SEATBELTS OR SHOULDER					
		4.24	17	20	65	3.67
F464	REMOVE, REPLACE, OR REINSTALL SHOULDER HARNESS INERTIAL				1	
	REELS	4.49	17	31	55	4.01
F466	REMOVE, REPLACE, OR REINSTALL SWING WINDOW LATCHING					
	MECHANISM COMPONENTS	3.75	17	25	52	4.73
F472	REPLACE, OR REINSTALL	4.31	17	48	64	4.04
F478		5.22	12	19	48	5.13
F481	REW SEATS	•	17	48	59	•
6547			15	38	49	•
<b>G</b> 552	INSPECT WHEEL BEARINGS	•	17	42	51	•
H618	INSPECT GTC ACCESS PANELS	3.90	17	09	58	•

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

TABLE 28 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 QTP LEARNING OBJECTIVES

			PERCENT	PERCENT MEMBERS PERFORMING	ERFORMING	
		C-130		C-130	C-130	
		TNG	C-130	1ST JOB	1ST ENL	TSK
TASKS	TASKS NOT REFERENCED	EMP	ATI	(N=48)	(N=170)	DIE
H635		5.39	18	26	9	5, 13
H650	REMOVE, REPLACE, OR REINSTALL GTC ACCESS PANELS	4.18	17	48	55	3.89
H663		5.14	18	73	64	3.68
1704	INSPECT FLIGHT CONTROL SURFACES	4.78	12	35	49	4.94
K835	PREPARE AIRCRAFT FOR FUEL CELL MAINTENANCE	4.57	17	52	56	5.12
K854	PERFORM OPERATIONAL CHECKS OF AIRCRAFT BATTERIES	4.92	18	58	65	4.24
P982	ACCESS CAMS MENUS	5.04	18	44	52	4.30
P988	OPEN CAMS	5.04	18	35	20	4.17
P989	PERFORM CAMS INQUIRY FOR SCHEDULED AIRCRAFT DISCREPANCIES	5.35	18	33	20	4.52
P994	SCHEDULE AIRCRAFT DISCREPANCIES IN CAMS	4.57	15	35	49	4.66
P997	UPDATE AIRCRAFT MAINTENANCE DISCREPANCIES IN CAMS	5.37	12	40	48	4.76

C-130: TE MEAN = 3.14, S.D. = 1.45 TD MEAN = 5.00, S.D. = 1.00

#### QTP Summary

The majority of the matched portions of the three QTP documents are supported by survey data using criteria set forth in AFR 8-13/ATC Sup 1 and ATCR 52-22, Atch 1. Areas of major concern should include paragraph 4, which contains several objectives which repeatedly revealed unsupportive matched tasks. In addition, the "Tasks Not Matched" sections had several tasks with a high percentage of personnel performing. A high concentration of the unmatched tasks was found in Duty F, Performing General Airframe and Aircraft Maintenance.

#### Training Analysis Summary

Courses taught in Phase I training were not reviewed as they primarily teach aircraft maintenance and system fundamentals. The majority of the WS Sup STSs and the QTPs are supported by survey data when reviewed using criteria set forth in AFR 8-13/ATC Supplement 1 and ATCR 52-22. Unsupported elements and learning objectives need to be reviewed by school personnel.

#### JOB SATISFACTION

Respondents were asked to indicate how interested they are in their jobs, if they feel their talents and training are being used, and if they intend to reenlist. Satisfaction indicators for TAFMS groups in the present study were compared to those TAFMS members of similar AFSCs surveyed in 1991 (see Table 29). Overall, AFSC 457X2 personnel are satisfied with their jobs.

Satisfaction indicators for members in the various jobs are shown in Table 30. Most respondents find their work interesting, with the exceptions of those in the CTK Monitor, Wheel and Tire, and Supply jobs. Fewer -21 AME Support and Transient Alert respondents feel their talents are being used. Those with the Supply job feel their training is not being applied in their job, while those in the CTK Monitor and Wheel and Tire jobs have lower reenlistment intentions than members of any other jobs. Overall, members of the Supply, -21 AME Support, and CTK Monitor jobs have the lowest job satisfaction indicators.

#### Summary

Satisfaction of AFSC 457X2 personnel and members of similiar AFSCs surveyed in 1991 was compared, and data show AFSC 457X2 personnel have similar responses to those of their counterparts in other AFSCs. Members of most jobs find their work interesting, feel their talents and training are used, and plan to reenlist. The exceptions to this include the -21 AME Support, CTK Monitor, and Supply personnel.

TABLE 29

COMPARISON OF JOB SATISFACTION INDICATORS FOR 457X2
TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE\*\*
(PERCENT MEMBERS RESPONDING)

	1-48 M 1992 (N=812)	1-48 MOS TAFMS COMP S92 SAMPLE E812) (N=2,230)	1992 (N=592)	49-96 MOS TAFMS COMP 992 SAMPLE =592) (N=1,441)	97+ MOS TAFMS COM 1992 SAMP (N=1,469) (N=2,	COMP SAMPLE (N=2,756)
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	77 15 8	72 17 11	73 19 8	71 17 12	78 15 7	73 15 12
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	80	80 20	80 50	77 23	85 15	79
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	85 15	80 20	78 22	74 26	81 19	74 26
REENLISTMENT INTENTIONS:						
WILL REENLIST WILL NOT REFNLIST WILL RETIRE	60 40 *	58 *1	70 30 *	68 31 *	76 7 17	75 12 13

\* Denotes less than 1 percent \*\* Comparative data from AFSCs 452X2, 454X1, 456X1, 457X3, and 465X0 surveyed in 1991

TABLE 30

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS\*\* (PERCENT MEMBERS RESPONDING)

CTK MONITOR (N=94)		46 34 20		62 37		47 52		53 6
-21 AME SUPPORT (N=102)		52 28 19		56 44		48 52		61 31 7
MAINTENANCE CONTROL COORDINATOR (N=15)		87 13 *		80 20		80 20		93 7 *
AUTOMATED MAINTENANCE CONTROL (N=193)		76 13 10		79 21		70 29		78 14 8
SUPERVISOR (N=285)		76 18 6	·	89 11		80		66 5 29
FLIGHTLINE CREW CHIEF (N=1,437)		81 14 5		87 13		91 8		72 24 4
	EXPRESSED JOB INTEREST:	INTERESTING SO-SO DULL	PERCEIVED USE OF TALENTS:	FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	PERCEIVED USE OF TRAINING:	FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	REENLISTMENT INTENTIONS:	WILL REENLIST WILL NOT REENLIST WILL RETIRE

\* Denotes less than 1 percent \*\* Columns may not add to 100 percent due to rounding

TABLE 30 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS\*\* (PERCENT MEMBERS RESPONDING)

I SOCHRONAL INSPECTOR (N=30)	73 20 7	87 13	83 17	73 13 13
FLIGHTLINE EXPEDITOR (N=40)	80 13 7	84 15	80 20	60 35
T.O. MONITOR (N=49)	63 8 8	75 24	57 · 43	57 31 12
TRANSIENT ALERT (N=51)	60 18 22	55 45	59 41	71 25 4
QUALITY ASSURANCE EVALUATION (N=61)	95 3	95	97	79 5 16
EXPRESSED JOB INTEREST:	INTERESTING SO-SO DULL	PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	REENLISTMENT INTENTIONS: WILL REENLIST WILL NOT REENLIST WILL RETIRE

\* Denotes less than 1 percent \*\* Columns may not add to 100 percent due to rounding

TABLE 30 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS\*\* (PERCENT MEMBERS RESPONDING)

	FLIGHTLINE INSPECTOR (N=22)	FLIGHT MECHANIC (N=18)	TRAINING INSTRUCTOR (N=16)	WHEEL AND TIRE (N=11)	SUPPLY (N=11)	REFURBISHMENT MECHANIC (N=10)
EXPRESSED JOB INTEREST:						
INTERESTING SO-SO DULL	85 9 9	100	88 9 9	45 36 18	45 36 18	80 10
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	86 14	100	87 13	64 36	64 36	80 20
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL	86 14	100	75 25	73 27	26 74	50 50
REENLISTMENT INTENTIONS:						
WILL REENLIST WILL NOT REENLIST WILL RETIRE	49 36 *	83 11 6	87 13	55 27 18	84 36 *	90 10 *

\* Denotes less than 1 percent \*\* Columns may not add to 100 percent due to rounding

#### DISCUSSION

Overall, the career ladder structure is comprised of 17 jobs. The main job identified is the Flightline Crew Chief. Personnel progress typically through the career ladder, with 3- and 5-skill level members performing mainly technical tasks and 7-skill level members performing a mixture of technical and supervisory tasks. Survey data support the current AFR 39-1 specialty description.

Job satisfaction indicators for this specialty are very similar to those of related AFSCs surveyed in 1991. Members of most jobs report they find their job interesting and feel their talents and training are used. Members in the CTK Monitor job, the -21 AME Support job, and the Supply job, however, have the lowest satisfaction indicators.

Most of the matched elements of the WS Sup STS were well supported by survey data; however, numerous elements and tasks not matched to the STS require review for possible inclusion. The QTP documents were in better shape, and most of the learning objectives were well supported by survey data. Many of the tasks in the tasks not matched sections of both of the documents were under Duty F, Performing General Airframe and Aircraft and Maintenance. School personnel need to review all unsupported objectives, as well as high performance and unmatched tasks, to determine if revisions to the training documents are required.

#### APPENDIX A

SELECTED REPRESENTED TASKS PERFORMED BY MEMBERS OF CAREER LADDER JOBS

## FLIGHTLINE CREW CHIEF (GRP137)

NUMBER IN GROUP:	1,437	AVERAGE	TIME	IN	JOB:	48	MONTHS
PERCENT OF SAMPLE:	50%	AVERAGE	TAFMS	S:	84 M	ONTHS	5

TASKS		PERCENT MEMBERS PERFORMING
	OPERATE AIRCRAFT INTERPHONES	97
	OPEN OR CLOSE ENGINE COWLINGS	97
F317		96
	SERVICE AIRCRAFT TIRES	95
	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	95
G523		95
F361		94
F411		94
F488	SERVICE AIRCRAFT SHOCK STRUTS	94
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	94
F416	SERVICE AIRCRAFT SHOCK STRUTS PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS POSITION FIRE EXTINGUISHERS INSPECT ACCESS PANELS INSPECT ACCESS DOORS OR HATCHES TOW AIRCRAFT LAUNCH OR RECOVER AIRCRAFT LUBRICATE AIRCRAFT COMPONENTS	94
F319	INSPECT ACCESS PANELS	94
£318	INSPECT ACCESS DOORS OR HATCHES	93
F500	TOW AIRCRAFT	92
F358	LAUNCH OR RECOVER AIRCRAFT	92
F360	LUBRICATE AIRCRAFT COMPONENTS	92
G543	INSPECT LANDING GEAR STRUTS	92
	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	92
	INSPECT WINDOWS OR WINDSHIELDS	91
F434	, ,	•
	SCREWS OR FASTENERS	91
	INSPECT FIRE EXTINGUISHERS	91
	SERVICE AIRCRAFT LOX SYSTEMS	91
	SERVICE ENGINES WITH OIL	91
F484	SERVICE AIRCRAFT ACCUMULATORS	91
	WALK WINGS OR TAIL DURING AIRCRAFT TOWING OPERATIONS	91
	OPERATE AIRCRAFT RADIOS	89
	INSPECT EXTERNAL LIGHTS	89
	POSITION AGE TO AIRCRAFT	89
	INSPECT RADOMES	89
F344	INSPECT SEAT LOCKING MECHANISMS	88

### SUPERVISOR (STG078)

NUMBER IN GROUP: 285 PERCENT OF SAMPLE: 10% AVERAGE TIME IN JOB: 37 MONTHS

AVERAGE TAFMS: 178 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
C106		87
A10	DETERMINE WORK PRIORITIES	85
B33		79
A19		70
	INGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	78 74
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	74 74
A2	ASSIGN PERSONNEL TO DUTY POSITIONS	74 71
A18	ESTABLISH WURK SCHEDULES	71 71
A21	SCHEDULE PERSONNEL FOR LEAVES, PASSES, OR TDY	69
A27	PLAN OR SCHEDULE WORK PRIORITIES	69
A21	FOR SUREDULE WORK PRIORITIES  FOR SUREDDINATES	69
A1	ASSIGN MAINTENANCE AND REPAIR WORK	68
	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	68
D112	ANNOTATE TRAINING RECORDS	68
C81		
	STANDARDS OR TECHNICAL ORDERS	67
B32	CONDUCT SUPERVISORY ORIENTATIONS OF NEWLY ASSIGNED	
	PERSONNEL	64
B56	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE TECHNICIANS (AFSC	
	45772)	61
A7		
	OR APPROPRIATE AGENCIES	61
C63		61
B53		
	SUBORDINATES	61
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	61
	PERFORM SELF-INSPECTIONS	60
C65		58 5.6
	CONDUCT OUT	56
B51	·	56
5212	PERSONNEL TOOLS OF SUPPLIES	56 56
F163	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	r r
E103	COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST) ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS OR SUPERVISORS	55
		55 55
A14 A8		J.J
MO.	SPACE EQUIPMENT, OR SUPPLIES	54
	STAGE, EQUIPMENT, OR SUFFLIES	J7

#### AUTOMATED MAINTENANCE CONTROL (STG276)

NUMBER IN GROUP: 193 AVERAGE TIME IN JOB: 33 MONTHS PERCENT OF SAMPLF: 7% AVERAGE TAFMS: 127 MONTHS

<u>TASKS</u>		PERCENT MEMBERS PERFORMING
P982	ACCESS CAMS MENUS	94
P994	SCHEDULE AIRCRAFT DISCREPANCIES IN CAMS	91
P989		90
P983	· · · · · · · · · · · · · · · · · · ·	
	SCREENS	89
P997		88
P993		85
P991		0.4
0000	LISTINGS	84
۲992		80
nnoo	PRIOR TO, DURING, AND AFTER SCHEDULING MAINTENANCE	77
P988 P986		77
	CHANGE CAMS WORKCENTER EVENT NARRATIVES	64
	START OR STOP CAMS JOB FOLLOWING EVENTS	59
P996		59
A7		0.5
,,,	OR APPROPRIATE AGENCIES	59
P984		58
P990	PERFORM CAMS INQUIRY FOR TRAINING STATUS	58
A6		58
A10	DETERMINE WORK PRIORITIES	58
A4	COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH	
	AIRCREWS OR APPROPRIATE AGENCIES	54
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF	
	FORMS 781 SERIES	50
P998		44
A26		44
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEF-	
	INGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	41
A 1		40
C106		40
	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	40
A22	PLAN OR SCHEDULE WORK PRIORITIES	39
	DETERMINE CAMS TRAINING REQUIREMENTS	34
D114	CONDUCT OJT	33

## MAINTENANCE CONTROL COORDINATOR (STG299)

NUMBER IN GROUP: 15 AVERAGE TIME IN JOB: 31 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 152 MONTHS

<u>TASKS</u>		PERCENT MEMBERS PERFORMING
A4	COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH	
	AIRCREWS OR APPROPRIATE AGENCIES	100
<b>A</b> 6	COORDINATE CANNIBALIZATION OF PARTS WITH MATERIEL SUPPORT	100
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL	
	OR APPROPRIATE AGENCIES	93
A10	DETERMINE WORK PRIORITIES	93
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES DETERMINE LOGISTICS REQUIREMENTS, SUCH AS PERSONNEL, SPACE, EQUIPMENT, OR SUPPLIES	87
<b>8</b> A	DETERMINE LOGISTICS REQUIREMENTS, SUCH AS PERSONNEL,	
	SPACE, EQUIPMENT, OR SUPPLIES	
A1	ASSIGN MAINTENANCE AND REPAIR WORK	73
A26	REVIEW FLIGHT SCHEDULES	73
E184	COORDINATE OBTAINING PARTS WITH BASE SUPPLY	73
B29	ADJUST DAILY MAINTENANCE PLANS TO MEET OPERATIONAL	
	COMMITMENTS	67
A22	PLAN OR SCHEDULE WORK PRIORITIES	67
A19	PLAN OR SCHEDULE WORK PRIORITIES PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEF- INGS. CONFERENCES. OR WORKSHOPS. OTHER THAN CONDUCTING	
	INGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	
A20	PLAN OR PREPARE BRIEFINGS	55
B42	DIRECT UTILIZATION OF FACILITIES OR WORK AREAS	47
A18	ESTABLISH WORK SCHEDULES	47
A25	REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES	47
E267	VERIFY MISSION CAPABILITY (MICAP) CONDITIONS	40
B35	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS INDICATORS,	
	SUCH AS BOARDS, GRAPHS, OR CHARTS	40
B41	DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT OR SUPPLY	
	LEVELS	40
B30	COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES	40
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	40
A24		
	OR SYMPOSIUMS	40
A27	SCHEDULE PERSONNEL FOR LEAVES, PASSES, OR TDY	40
D114	CONDUCT OJT	40
A11	DEVELOP EQUIPMENT UTILIZATION OR MAINTENANCE SCHEDULES	40
C106	WRITE EPRS	40
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	40

#### -21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT (STG185)

NUMBER IN GROUP: 102 PERCENT OF SAMPLE: 4% AVERAGE TIME IN JOB: 26 MONTHS AVERAGE TAFMS: 76 MONTHS

		MEMBERS
<u>TASKS</u>		PERFORMING
0975	REMOVE, REPLACE, OR REINSTALL -21 AME, OTHER THAN SEATS OR	
	LITTERS	99
0963		97
0980		95
0961		
	MAINTENANCE (PDM)	94
0973		92
0962	PERFORM -21 AME UPLOADS FOR PDM	92
0955	INSPECT -21 ALTERNATE MISSION EQUIPMENT (AME), OTHER THAN	
	EMERGENCY EQUIPMENT	91
0967		
	SCREWS OR BOLTS	88
0956		
	KITS AND EMERGENCY OXYGEN BOTTLES	86
0954		82
0959		80
0969		
	LITTERS	78
0978	,	77
0057	SYSTEM COMPONENTS	77 75
	INSPECT DUAL RAIL CARGO HANDLING SYSTEMS	75
0979		74
0074	PARTS ON DUAL RAIL CARGO HANDLING SYSTEM	7.4
0974		74 72
0952	AUJUST DUAL RAIL CARGO HANDLING SYSTEM COMPONENTS	72 72
0960		72 72
0981		67
F419		65
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES PERFORM MINOR CORROSION CONTROL ON -21 AME	65
0972		03
0972	HANDLING SYSTEMS	64
A10		64
F373		59
F306		57
E175	001111201 011 01101111201 2111211112	56
0964		30
0304	SYSTEMS	55
0976	REMOVE, REPLACE, OR REINSTALL ADS CABLES	54
03/0	REMOVE, REPLACE, OR REINSTALL ADS CADLES	74

# COMPOSITE TOOL KIT (CTK) MONITOR (STG102)

NUMBER	IN	GROUP:	9	34
PERCENT	ΛF	SAMPL	F.	1%

AVERAGE TIME IN JOB: 18 MONTHS

AVERAGE TAFMS: 91 MONTHS

TASKS	5	PERCENT MEMBERS PERFORMING
E217	MAINTAIN COMPOSITE TOOL KITS (CTK)	94
	MAINTAIN BENCHSTOCK PARTS OR ÈQUIPMENT LEVELS	80
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	78
	ISSUE EQUIPMENT AND SUPPLIES	76
E239		72
	LOG TURN-IN OF EQUIPMENT AND SUPPLIES	72
E175		69
E190	INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	61
E163	COMPLETE AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	57
	ANNOTATE OR COMPLETE AF FORMS 2413 (SUPPLY CONTROL LOG)	
E161		
	AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	51
	INVENTORY CTKs	50
E184		48
C64	,	
	OR CONDEMNED	43
A10	DETERMINE WORK PRIORITIES	39
C67	CONDUCT INSPECTIONS OF ORGANIZATIONAL EQUIPMENT	37
	WRITE EPRs	37
	PROCESS DIFM ITEMS	36
A5		
	MEASUREMENT EQUITMENT EABORATORY (FMEE)	35
E218	MAINTAIN DUE-IN FROM MAINTENANCE (DIFM) TRANSACTION	
	ROSTERS	34
E227		
	SCHEDULES CONTROL (CHARLE)	34
	REVIEW AF FORMS 2413 (SUPPLY CONTROL LOG)	33
	ANNOTATE AF FORMS 1800 (OPERATOR'S INSPECTION GUIDE AND	
	TROUBLE REPORT (GENERAL PURPOSE VEHICLES))	33
	EVALUATE SERVICEABILITY OF EQUIPMENT OR SUPPLIES	32
E245	PICK UP OR DELIVER EQUIPMENT, SUPPLIES, OR TOOLS FROM	
	SUPPLY POINTS	32
E250	RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA	32
E1/9	COMPLETE DD FORMS 1348-1 (DOD SINGLE LINE ITEM RELEASE/	
	RECEIPT DOCUMENT)	31
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS	
	OF EOUIPMENT	31

## QUALITY ASSURANCE EVALUATION (QAE) (STG333)

NUMBER IN GROUP: 61 PERCENT OF SAMPLE: 2% AVERAGE TIME IN JOB: 31 MONTHS

AVERAGE TAFMS: 171 MONTHS

<u>TASKS</u>		MEMBERS PERFORMING
G523	INSPECT AIRCRAFT TIRES	98
F319	INSPECT ACCESS PANELS	98
F318	INSPECT ACCESS DOORS OR HATCHES	98
F342	INSPECT RADOMES	97
I704	INSPECT FLIGHT CONTROL SURFACES	97
F322	INSPECT AIRCRAFT SHOCK STRUTS	95
	INSPECT AIRCRAFT FOR CORROSION	95
	INSPECT LANDING GEAR STRUTS	95
	INSPECT BRAKE SYSTEM COMPONENTS	95
	INSPECT FIRE EXTINGUISHERS	95
	INSPECT LANDING GEAR DOOR MECHANISMS	93
	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	93
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER	
	HARNESSES	93
	INSPECT WINDOWS OR WINDSHIELDS	92
	INSPECT CREW ENTRANCE DOOR SYSTEMS	92
	INSPECT LANDING GEAR DOOR ACTUATING COMPONENTS	92
	INSPECT NOSEWHEEL STEERING SYSTEMS	92
	INSPECT EXTERNAL LIGHTS	92
F344		92
	INSPECT AIRCRAFT BATTERIES	92
	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	90
	INSPECT LANDING GEAR SYSTEM HYDRAULIC COMPONENTS	90
	INSPECT HYDRAULIC SYSTEM RESERVOIRS	90
C81		
	STANDARDS OR TECHNICAL ORDERS	89
G535	INSPECT LANDING GEAR EMERGENCY EXTENSION MECHANISMS	89

#### TRANSIENT ALERT (GRP139)

NUMBER IN GROUP: 51 NUMBER IN GROUP: 51
PERCENT OF SAMPLE: 2% AVERAGE TIME IN JOB: 37 MONTHS AVERAGE TAFMS: 87 MONTHS

TASKS	<u>,                                      </u>	PERCENT MEMBERS PERFORMING
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING POSITION AGE TO AIRCRAFT POSITION FIRE EXTINGUISHERS PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS GROUND AIRCRAFT MARSHAL AIRCRAFT TOW AIRCRAFT PERFORM PREUSE INSPECTION OF TOW VEHICLES TOW NONPOWERED AGE WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	92
F413	POSITION AGE TO AIRCRAFT	90
F416	POSITION FIRE EXTINGUISHERS	90
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	88
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	86
F317	GROUND AIRCRAFT	86
F361	MARSHAL AIRCRAFT	84
F500	TOW AIRCRAFT	84
F410	PERFORM PREUSE INSPECTION OF TOW VEHICLES	82
F501	TOW NONPOWERED AGE	80
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	80
F306	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	80
F40/	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	80
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	78
F358	LAUNCH OR RECOVER AIRCRAFT	76
F398	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT LAUNCH OR RECOVER AIRCRAFT PERFORM PREUSE INSPECTION OF GASEOUS OXYGEN SERVICING EQUIPMENT PERFORM PREUSE INSPECTION OF GASEOUS NITROGEN SERVICING EQUIPMENT PERFORM PREUSE INSPECTION OF GASEOUS NITROGEN SERVICING EQUIPMENT	7.5
520 <b>7</b>	EQUIPMENT	/5
F397	PERFORM PREUSE INSPECTION OF GASEOUS NITROGEN SERVICING	7-
5000	EQUIPMENT	/5 70
F390	PERFURM LIVER-THE-WING AIRLRAFT REFUELING DR TIFFUELING	/ <
F409	PERFORM PREUSE INSPECTION OF PORTABLE LIGHTING EQUIPMENT PERFORM PREUSE INSPECTION OF GENERATORS	73
F399	PERFORM PREUSE INSPECTION OF GENERATORS	71
G523	INSPECT ATRICKANT TIRES	/1 67
F49/	PERFORM PREUSE INSPECTION OF GENERATORS INSPECT AIRCRAFT TIRES TAKE ENGINE OIL SAMPLES SERVICE AIRCRAFT TIRES DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	70 77
F409	DIDECT AIDCDAFT DEFINE OD DEFNELING ODEDATIONS	0/ 6E
L404	CEDVICE ENGINES WITH OIL	65
E259	SERVICE ENGINES WITH OIL	_
C233	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	65
T2E6		
		65
E204	PERFORM PREUSE INSPECTION OF AIR COMPRESSORS	05
E2U4	DECODES CHOU AS AT FORMS 701 SERVES	65
E400	VECOUDS. SOCIL VS VILLOUIS VOI SEVIES	63
F4UU F407	PERFORM PREUSE INSPECTION OF GROUND HEATERS AND BLOWERS	63
F487	SERVICE AIRCRAFT LOX SYSTEMS	03

## TECHNICAL ORDER MONITOR (STG077)

NUMBER IN GROUP: 49
PERCENT OF SAMPLE: 2%

AVERAGE TIME IN JOB: 22 MONTHS AVERAGE TAFMS: 102 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
17,510		
B40		88
E237	MAINTAIN TECHNICAL ORDER PUBLICATION FILES	86
E261	REVIEW TECHNICAL ORDER CHANGES	80
E205	INITIATE OR ANNOTATE TECHNICAL ORDER SYSTEM FORMS, SUCH AS	
	AFTO FORMS 22, 27, 110, 110A, 110B, AND 131	78
E172	COMPLETE AFTO FORMS 187 (TECHNICAL ORDER PUBLICATIONS	
	REQUEST)	73
E262		
	22, 27, 110, 110A, 110B, AND 131	69
E238		57
A10		55
A9	DETERMINE PUBLICATION REQUIREMENTS	51
A13	DEVELOP SELF-INSPECTION PROGRAMS	43
A19		4.0
5001	INGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	43
E221	· · · · · · · · · · · · · · · · · · ·	20
	INSPECTIONS	39 39
A22		39 37
B39	PERFORM SELF-INSPECTIONS  DIRECT MAINTENANCE OF BURLICATION FILES OTHER THAN	37
623	DIRECT MAINTENANCE OF PUBLICATION FILES, OTHER THAN TECHNICAL ORDER FILES	35
A 1 A	DEVELOR MODE METHODS OF BROCEDIBES	35 35
A14	EVALUATE DEDECOMMEL FOR COMPLIANCE MITTH DEDECOMANCE	33
COI	STANDADOS OD TECHNICAL ODDEDS	35
E224	MAINTAIN MICHAEICHE STOCK EILES	33
D112	ANNOTATE TRAINING RECORDS	33
R48	IMPLEMENT SELE-INSPECTION PROGRAMS	31
€63	ANALYZE WORKLOAD REQUIREMENTS	31
F190	INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	31
F268	VERIEY RECEIPT OF TOTO CHANGES	29
B38	DIRECT MAINTENANCE OF ADMINISTRATIVE FILES	29
A18	ESTABLISH WORK SCHEDULES	29
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	29
D121	TECHNICAL ORDER FILES  DEVELOP WORK METHODS OR PROCEDURES  EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE  STANDARDS OR TECHNICAL ORDERS  MAINTAIN MICROFICHE STOCK FILES  ANNOTATE TRAINING RECORDS  IMPLEMENT SELF-INSPECTION PROGRAMS  ANALYZE WORKLOAD REQUIREMENTS  INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)  VERIFY RECEIPT OF TCTO CHANGES  DIRECT MAINTENANCE OF ADMINISTRATIVE FILES  FSTABLISH WORK SCHEDULES  INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS  DETERMINE TRAINING REQUIREMENTS	29
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS	
	OF EQUIPMENT	27

## FLIGHTLINE EXPEDITOR (STG270)

NUMBER IN GROUP: 40 PERCENT OF SAMPLE: 1% AVERAGE TIME IN JOB: 43 MONTHS

AVERAGE TAFMS: 198 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
A16	DETERMINE WORK PRIORITIES	95
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	93
C65		93
B56	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE TECHNICIANS (AFSC	00
4.5	45772)	90
A1	ASSIGN MAINTENANCE AND REPAIR WORK	85
A7		83
E204	OR APPROPRIATE AGENCIES INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE	03
E204	RECORDS, SUCH AS AF FORMS 781 SERIES	73
B55	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE SPECIALISTS (AFSC	, 5
033	45752A)	68
E153		50
	TROUBLE REPORT (GENERAL PURPOSE VEHICLES))	68
B62	SUPERVISE MILITARY PERSONNEL WITH AFSC OTHER THAN 457X2	
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF	
	FORMS 781 SERIES	63
C106	WRITE EPRs	60
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS PLAN OR SCHEDULE WORK PRIORITIES	60
A22	PLAN OR SCHEDULE WORK PRIORITIES	58
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	53
C64	,	5.0
	OR CONDEMNED	50
A6		48
C108		48
C101	PERFORM IN-PROCESS INSPECTIONS COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	45 43
B33		43 40
B61 C63	ANALYZE MODIZIOAN DECHIDEMENTS	40
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH AIRCREWS OR APPROPRIATE AGENCIES INDORSE ENLISTED PERFORMANCE REPORTS (EPR)	40
A21	COODDINATE AIDCDAET LAHNOU AND DECOVEDY TIMES WITH	40
	ATDODENS OF ADDODDIATE ACENCIES	40
C95	INDODE ENTITIED DEBENDMANCE REPORTS (EDR)	40
C73	AIRCREWS OR APPROPRIATE AGENCIES INDORSE ENLISTED PERFORMANCE REPORTS (EPR) EVALUATE IN-PROCESS MAINTENANCE	40
P982	ACCESS CAMS MENUS	40
F413	POSITION AGE TO AIRCRAFT	40
	The second secon	

## ISOCHRONAL INSPECTOR (GRP138)

NUMBER IN GROUP: 38 PERCENT OF SAMPLE: 1% AVERAGE TIME IN JOB: 44 MONTHS

AVERAGE TAFMS: 139 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	97
F317	GROUND AIRCRAFT	97
F360	GROUND AIRCRAFT LUBRICATE AIRCRAFT COMPONENTS INSPECT ACCESS PANELS TOW AIRCRAFT ASSIGN MAINTENANCE AND REPAIR WORK POSITION FIRE EXTINGUISHERS PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	93
F319	INSPECT ACCESS PANELS	90
F500	TOW AIRCRAFT	87
Al	ASSIGN MAINTENANCE AND REPAIR WORK	87
F416	POSITION FIRE EXTINGUISHERS	87
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	87
1 303	OLEW ON CEOSE ENGINE COMPINGS	0/
	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	83
	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF	
	FORMS 781 SERIES	83
C220	INCRECT AIRCRAFT FOR CORROCTON	0.0
C106	WRITE EPRS  COMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492  OPERATE AIRCRAFT INTERPHONES  REMOVE, REPLACE, OR REINSTALL ACCESS PANELS  DETERMINE WORK PRIORITIES  REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES  INSPECT ACCESS DOORS OR HATCHES  PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	83
E177	COMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492	83
F367	OPERATE AIRCRAFT INTÉRPHONES	83
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	80
A10	DETERMINE WORK PRIORITIES	80
F477	REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES	80
F318	INSPECT ACCESS DOORS OR HATCHES	80
	TERTORIT STRUCE TOTAL ATRONAL T RELOCETING OR DELOCETING	80
D112	ANNOTATE TRAINING RECORDS	77
B33		77
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	77
	INSPECT AIRCRAFT TIRES PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS DIRECT AIRCRAFT TOWING OPERATIONS	77
	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	73
F312	DIRECT AIRCRAFT TOWING OPERATIONS	73
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	73
K848	INSPECT EXTERNAL LIGHTS	73
F364	OPEN OR CLOSE RADOMES	73
F375	PERFORM OPERATIONAL CHECKS OF CARGO DOORS OR RAMPS	73

# FLIGHTLINE INSPECTOR (STG340)

NUMBER IN GROUP: 22 AVERAGE TIME IN JOB: 34 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 68 MONTHS

<u>TASKS</u>		PERCENT MEMBERS PERFORMING
F367	OPERATE AIRCRAFT INTERPHONES GROUND AIRCRAFT INSPECT FIRE EXTINGUISHERS INSPECT AIRCRAFT SHOCK STRUTS INSPECT ACCESS PANELS INSPECT CARGO RAMP SEALS INSPECT RADOMES MARSHAL AIRCRAFT INSPECT AIRCRAFT LOX SYSTEMS INSPECT CREW ENTRANCE DOOR SYSTEMS INSPECT ACCESS DOORS OR HATCHES	100
F317	GROUND AIRCRAFT	95
F334	INSPECT FIRE EXTINGUISHERS	95
F322	INSPECT AIRCRAFT SHOCK STRUTS	95
F319	INSPECT ACCESS PANELS	95
F327	INSPECT CARGO RAMP SEALS	95
F342	INSPECT RADOMES	95
F361	MARSHAL AIRCRAFT	91
F321	INSPECT AIRCRAFT LOX SYSTEMS	91
F330	INSPECT CREW ENTRANCE DOOR SYSTEMS	91
F318	INSPECT ACCESS DOORS OR HATCHES	91
F331	INSPECT CREW ENTRANCE LADUERS	91
F339	INSPECT LIFERAFT RELEASE MECHANISMS, OTHER THAN LIFERAFT DOORS	91
F358	LAUNCH OR RECOVER AIRCRAFT	86
	LUBRICATE AIRCRAFT COMPONENTS	86
	OPEN OR CLOSE ENGINE COWLINGS	86
	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE DOOR OR	
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	86
F337	INSPECT GALLEYS	86
F340	VISOR SEALS INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS INSPECT GALLEYS INSPECT LIFERAFT STOWAGE OR SECURING SYSTEMS INSPECT LIFERAFT DOOR RELEASE MECHANISMS	86
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	86
F320	INSPECT AIRCRAFT FOR CORROSION	82
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER	
	HARNESSES	82
F333	INSPECT CREW POSITION WORK TABLES	82
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	82
	INSPECT ANTENNAS	82
	INSPECT SEAT LOCKING MECHANISMS	82
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	77
	OPERATE AIRCRAFT RADIOS	77
F332	INSPECT CREW OR PASSENGER COMFORT FACILITIES	77

### FLIGHT MECHANIC (STG443)

NUMBER IN GROUP: 18
PERCENT OF SAMPLE: LESS THAN 1%

AVERAGE TIME IN JOB: 54 MONTHS

AVERAGE TAFMS: 158 MONTHS

		PERCENT MEMBERS
TASKS		PERFORMING
		100
F319		100
K854	PERFORM OPERATIONAL CHECKS OF AIRCRAFT BATTERIES	100
K856	PERFORM OPERATIONAL CHECKS OF EXTERNAL LIGHTS	100
F318	INSPECT ACCESS DOORS OR HATCHES	94
F367	OPERATE AIRCRAFT INTERPHONES	94
G526	INSPECT BRAKE SYSTEM COMPONENTS	94
K857	PERFORM OPERATIONAL CHECKS OF INTERNAL LIGHTS	94
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	89
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	89
1//2	INSPECT HIDRAULIC STSTEM RESERVOIRS	0.5
	INSPECT HYDRAULIC SYSTEM PLUMBING	89
F322	INSPECT AIRCRAFT SHOCK STRUTS INSPECT AIRCRAFT TIRES PERFORM OPERATIONAL CHECKS OF PITCH TRIM SYSTEMS PERFORM OPERATIONAL CHECKS OF WING FLAP SYSTEMS PERFORM OPERATIONAL CHECKS OF SPOILER SYSTEMS	89
G523	INSPECT AIRCRAFT TIRES	89
1/15	PERFORM OPERATIONAL CHECKS OF PITCH TRIM SYSTEMS	89
1/19	PERFORM OPERATIONAL CHECKS OF WING FLAP SYSTEMS	89
1718	PERFORM OPERATIONAL CHECKS OF SPOILER SYSTEMS	89
r334	INSPECT FIRE EXITINGUISHERS	09
	OPERATE AIRCRAFT RADIOS	89
	INSPECT FUEL VENT OUTLETS	89
F342	INSPECT RADOMES	89
G550	INSPECT RADOMES INSPECT NOSEWHEEL STEERING SYSTEMS INSPECT LANDING GEAR SYSTEM HYDRAULIC COMPONENTS	89
G545	INSPECT LANDING GEAR SYSTEM HYDRAULIC COMPONENTS	89
	INSPECT EXTERNAL LIGHTS	89
	INSPECT LANDING GEAR STRUTS	89
	INSPECT INTERNAL LIGHTS	89
K849	INSPECT EXTERNAL POWER RECEPTACLES	89
	INSPECT HYDRAULIC SYSTEM ACTUATORS	83
	INSPECT HYDRAULIC SYSTEM SIGHT GAUGES	83
	INSPECT HYDRAULIC SYSTEM FILTERS	83
G547	INSPECT LANDING GEAR UP LOCK MECHANISMS	83

# TRAINING INSTRUCTOR (STG471)

NUMBER IN GROUP: 16 AVERAGE TIME IN JOB: 47 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 174 MONTHS

TASKS		MEMBERS PERFORMING
D140	MAINTAIN TRAINING RECORDS, CHARTS, GRAPHS, OR FILES	100
D112	MAINTAIN TRAINING RECORDS, CHARTS, GRAPHS, OR FILES ANNOTATE TRAINING RECORDS DIRECT OR IMPLEMENT TRAINING PROGRAMS COUNSEL TRAINEES ON TRAINING PROGRESS EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS FVALUATE TRAINERS OR TRAINEES	100
D127	DIRECT OR IMPLEMENT TRAINING PROGRAMS	94
D120	COUNSEL TRAINEES ON TRAINING PROGRESS	94
D130	EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	94
D134	EVALUATE TRAINERS OR TRAINEES	94
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEF- INGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	94
D133	EVALUATE PROGRESS OF TRAINEES	88
D126		88
	EVALUATE TRAINING METHODS OR TECHNIQUES	88
D121		81
	ADMINISTER TESTS	81
	PLAN OR SCHEDULE TRAINING, SUCH AS OJT, QTP, AND ANCILLARY	01
01,1	TRAINING	81
D132		81
B33		81
D122	DEVELOR CORMAL COURSE CURRICULA. DIANS OF INSTRUCTION	
	(POI), OR SPECIALTY TRAINING STANDARDS (STS) SCORE TESTS CONDUCT SAFETY OR SECURITY TRAINING EVALUATE TRAINING MATERIALS OR AIDS INFORM UNIT STAFF PERSONNEL ON TRAINING MATTERS CONDUCT RESIDENT COURSE CLASSROOM TRAINING PREPARE LESSON PLANS	75
D149	SCORE TESTS	75
D117	CONDUCT SAFETY OR SECURITY TRAINING	75
D135	EVALUATE TRAINING MATERIALS OR AIDS	75
D137	INFORM UNIT STAFF PERSONNEL ON TRAINING MATTERS	75
D116	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	69
D145	PREPARE LESSON PLANS	69
D114	CONDUCT OJT	69
D143	PREPARE LESSON PLANS CONDUCT OJT PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES WRITE EPRS	69
C106	WRITE EPRs	69
D124		63
D119	DEVELOP NEW EQUIPMENT TRAINING PROGRAMS COORDINATE TRAINING SCHEDULES WITH AFFECTED ACTIVITIES	63
D147	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	63
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE	
	STANDARDS OR TECHNICAL ORDERS	63
D131	EVALUATE INSTRUCTOR PERFORMANCE	63

### WHEEL AND TIRE (STG525)

NUMBER IN GROUP: 11 AVERAGE TIME IN JOB: 17 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 111 MONTHS

TASKS	5	PERCENT MEMBERS PERFORMING
	BUILD UP WHEEL AND TIRE ASSEMBLIES	100
	INSPECT WHEEL ASSEMBLIES	100
	INSPECT WHEEL BEARINGS	100
F297		91
G523		91
G553		91
F489		91
F302		91
F323	INSPECT AIRCRAFT WHEEL AND TIRE BEAD BREAKERS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	91
E1/5	COMPLETE AFTO FORMS 350 (REPARABLE 11EM PROCESSING TAG)	91
F350		91
P988		82
P986		82
	ACCESS CAMS MENUS	82
P991		82
F217	LISTINGS	82 82
	MAINTAIN COMPOSITE TOOL KITS (CTK)	82 82
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) DATA	92
P 303	SCREENS	73
E 201	PERFORM PREUSE INSPECTION OF AIR COMPRESSORS	73
	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH	75
C101	AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	73
F216	MAINTAIN BENCHSTOCK PARTS OR EQUIPMENT LEVELS	73
	PROCESS DIFM ITEMS	64
F356		64
C64		0 1
004	OR CONDEMNED	64
E159		64
E255	DEVIEW AE ECOMS 2412 (CHOOLY CONTOOL LOCK	64
A5	COORDINATE CALIBRATION OF SPECIAL TOOLS WITH PRECISION  MEASUREMENT FOULDMENT LAROPATORY (DMEL)	Ţ.,
,,,	MEASUREMENT EQUIPMENT LABORATORY (PMEL)	64
F163	COMPLETE AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	64
	PERFORM CAMS INQUIRY FOR TRAINING STATUS	55
E173		
_1,5	FOULPMENT RECORD)	55

### SUPPLY (STG487)

NUMBER IN GROUP: 11 AVERAGE TIME IN JOB: 34 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 76 MONTHS

<u>TASKS</u>		PERCENT MEMBERS PERFORMING
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
	PROCESS DIFM ITEMS	100
E163		100
E159 E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS	91
E246		91
	PROPERTY	91
E255	REVIEW AF FORMS 2413 (SUPPLY CONTROL LOG)	82
E184	COORDINATE OBTAINING PARTS WITH BASE SUPPLY	82
P982	ACCESS CAMS MENUS	82
E250 E179		82
	RECEIPT DOCUMENT)	82
E196	INITIATE AF FORMS 451 (REQUEST FOR PACKAGING SERVICE)	82
P989 P983	PERFORM CAMS INQUIRY FOR SCHEDULED AIRCRAFT DISCREPANCIES	73
	SCREENS	73
E245	PICK UP OR DELIVER EQUIPMENT, SUPPLIES, OR TOOLS FROM SUPPLY POINTS	73
E161	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH	
	AS DD FORMS 1574 (SÈRVICEABLE TAG-MATERIEL)	55
E266		
P991	D19, D23, AND M30	55
1 331	LISTINGS	55
E174		33
L1/7	RECORD)	55
naan	PERFORM CAMS INQUIRY FOR TRAINING STATUS	55
	WRITE LETTERS OF JUSTIFICATION FOR SUPPLY RELATED MATTERS	
	LOG TURN-IN OF EQUIPMENT AND SUPPLIES	45
		43
E218		45
E067	ROSTERS	45 45
E267		45
E236		45
	D19, D23, AND M30	45
E265		45
FION	INITIATE AE EORMS 1297 (TEMPORARY ISSUE RECEIPT)	45

#### REFURBISHMENT MECHANIC (STG399)

NUMBER IN GROUP: 10 AVERAGE TIME IN JOB: 38 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 51 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	100
F360	LUBRICATE AIRCRAFT COMPONENTS	100
F319	INSPECT ACCESS PANELS	100
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR	
	CARGO COMPARTMENTS	100
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	100
F331	INSPECT CREW ENTRANCE LADDERS	100
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS	
	SCREWS OR FASTÉNERS	90
F318	INSPECT ACCESS DOORS OR HATCHES	90
	INSPECT AIRCRAFT FOR CORROSION	90
F337	INSPECT GALLEYS	90
F317	GROUND AIRCRAFT	90
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER	
	HARNESSES	90
F367	OPERATE AIRCRAFT INTERPHONES	90
E177	COMPLETE DANGER TAGS. SUCH AS AF FORMS 979 AND 1492	90
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	90
F420	REFURBISH AIRCRAFT INTERIOR OR EXTERIOR SURFACES	80
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	80
F416	POSITION FIRE EXTINGUISHERS	80
F449	REMOVE, REPLACE, OR REINSTALL CREW SEATS	80
F344	INSPECT SEAT LOCKING MECHANISMS	80
F413	POSITION AGE TO AIRCRAFT	80
	COMPLETE AIRCRAFT INSPECTION WORKCARDS	70
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	70
	INSPECT FIRE EXTINGUISHERS	70
F463	REMOVE, REPLACE, OR REINSTALL SEATBELTS OR SHOULDER	
	HARNESSES	70
F436	REMOVE, REPLACE, OR REINSTALL AIRCRAFT PROTECTIVE	
	COVERÍNGS	70
F386	PERFORM OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS	70
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	70
F379	PERFORM OPERATIONAL CHECKS OF CREW ENTRANCE DOORS OR	
	LADDERS	70
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF	
	FORMS 781 SERIES	70